



# Biological and Water Quality Study of Little Miami River and Tributaries 2012



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# **Biological and Water Quality Study of the Little Miami River and Tributaries 2012**

**Hamilton County, Ohio**

Technical Report MBI/2013-6-8

MSD Project Number 10180900

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## Glossary of Terms

<b>Ambient Monitoring</b>	Sampling and evaluation of receiving waters not necessarily associated with episodic perturbations.
<b>Antidegradation Policy</b>	The part of state water quality standards that protects existing uses, prevents degradation of high quality waterbodies unless certain determinations are made, and which protects the quality of outstanding national resource waters.
<b>Aquatic Assemblage</b>	An association of interacting populations of organisms in a given waterbody, for example, the fish assemblage or the benthic macroinvertebrate assemblage.
<b>Aquatic Community</b>	An association of interacting assemblages in a given waterbody, the biotic component of an ecosystem.
<b>Aquatic Life Use (ALU)</b>	A beneficial use designation in which the waterbody provides suitable habitat for survival and reproduction of desirable fish, shellfish, and other aquatic organisms; classifications specified in State water quality standards relating to the level of protection afforded to the resident biological community by the custodial State agency.
<b>Assemblage</b>	Refers to all of the various species of a particular taxonomic grouping (e.g., fish, macroinvertebrates, algae, submergent aquatic plants, etc.) that exist in a particular habitat. Operationally this term is useful for defining biological assessment methods and their attendant assessment mechanisms, i.e., indices of biotic integrity (IBI), O/E models, or fuzzy set models.
<b>Attainment Status</b>	The state of condition of a waterbody as measured by chemical, physical, and biological indicators. Full attainment is the point at which measured indicators signify that a water quality standard has been met and it signifies that the designated use is both attained and protected. Non-attainment is when the designated use is not attained based on one or more of these indicators being below the required condition or state for that measure or parameter.

<b>Attribute</b>	A measurable part or process of a biological system.
<b>Beneficial Uses</b>	Desirable uses that acceptable water quality should support. Examples are drinking water supply, primary contact recreation (such as swimming), and aquatic life support.
<b>Benthic Macroinvertebrates</b>	Animals without backbones, living in or on the substrates, of a size large enough to be seen by the unaided eye, and which can be retained by a U.S. Standard No. 30 sieve (0.595 mm openings). Also referred to as benthos, infauna, or macrobenthos.
<b>Best Management Practice</b>	An engineered structure or management activity, or combination of these that eliminates or reduces an adverse environmental effect of a pollutant, pollution, or stressor effect.
<b>Biological Assessment</b>	An evaluation of the biological condition of a waterbody using surveys of the structure and function of a community of resident biota; also known as bioassessment. It also includes the interdisciplinary process of determining condition and relating that condition to chemical, physical, and biological factors that are measured along with the biological sampling.
<b>Biological Criteria (Biocriteria)</b>	<p><u>Scientific meaning</u>: quantified values representing the biological condition of a waterbody as measured by structure and function of the aquatic communities typically at reference condition; also known as biocriteria.</p> <p><u>Regulatory meaning</u>: narrative descriptions or numerical values of the structure and function of aquatic communities in a waterbody necessary to protect a designated aquatic life use, implemented in, or through state water quality standards.</p>
<b>Biological Condition Gradient</b>	A scientific model that describes the biological responses within an aquatic ecosystem to the increasing effects of stressors.
<b>Biological Diversity</b>	Refers to the variety and variability among living organisms and the ecological complexes in which they



occur. Diversity can be defined as the number of different taxa and their relative frequencies. For biological diversity, these taxa are organized at many levels, ranging from complete ecosystems to the biochemical structures that are the molecular basis of heredity. Thus, the term encompasses different ecosystems, species, and genes; also known as biodiversity.

**Biological Indicator**

An organism, species, assemblage, or community characteristic of a particular habitat, or indicative of a particular set of environmental conditions; also known as a bioindicator.

**Biological Integrity**

The ability of an aquatic ecosystem to support and maintain a balanced, adaptive community of organisms having a species composition, diversity, and functional organization comparable to that of natural habitats within a region (after Karr and Dudley 1981).

**Biological Monitoring**

The use of a biological entity (taxon, species, assemblage) as a detector and its response as a measure of response to determine environmental conditions. Ambient biological surveys and toxicity tests are common biological monitoring methods; also known as biomonitoring.

**Biological Survey**

The collection, processing, and analysis of a representative portion of the resident aquatic community to determine its structural and/or functional characteristics and hence its condition using standardized methods.

**Bioregion**

Any geographical region characterized by a distinctive flora and/or fauna.

**Clean Water Act (CWA)**

An act passed by the U.S. Congress to control water pollution (formally referred to as the Federal Water Pollution Control Act of 1972). Public Law 92-500, as amended. 33 U.S.C. 1251 et seq.; referred to herein as the CWA.

**CWA Section 303(d)**

This section of the Act requires States, territories, and authorized Tribes to develop lists of impaired waters

for which applicable water quality standards are not being met, even after point sources of pollution have installed the minimum required levels of pollution control technology. The law requires that these jurisdictions establish priority rankings for waters on the lists and develop TMDLs for these waters. States, territories, and authorized Tribes are to submit their list of waters on April 1 in every even-numbered year.

**CWA Section 305(b)**

Biennial reporting required by the Act to describe the quality of the Nation’s surface waters, to serve as an evaluation of progress made in maintaining and restoring water quality, and describe the extent of remaining problems.

**Criteria**

Limits on a particular pollutant or condition of a waterbody presumed to support or protect the designated use or uses of a waterbody. Criteria may be narrative or numeric and are commonly expressed as a chemical concentration, a physical parameter, or a biological assemblage endpoint.

**DELT Anomalies**

The percentage of Deformities, Erosions (e.g., fins, barbels), Lesions and Tumors on fish assemblages (DELT). An important fish assemblage attribute that is a commonly employed metric in fish IBIs.

**Designated Uses**

Those uses specified in state water quality standards for each waterbody or segment whether or not they are being attained.

**Disturbance**

Any activity of natural or human causes that alters the natural state of the environment and its attributes and which can occur at or across many spatial and temporal scales.

**Ecological integrity**

The summation of chemical, physical, and biological integrity capable of supporting and maintaining a balanced, integrated adaptive community of organisms having a species composition, diversity, and functional organization comparable to that of natural habitats in the region.

<b>Ecoregion</b>	A relatively homogeneous geographical area defined by a similarity of climate, landform, soil, potential natural vegetation, hydrology, or other ecologically relevant variables; ecoregions are portioned at increasing levels of spatial detail from level I to level IV.
<b>Existing Use</b>	A use that was actually attained in a waterbody on or after November 28, 1975, whether or not they are included in the state water quality standards (November 28, 1975 is the date on which U.S. EPA promulgated its first water quality standards regulation in 40CFR Part 131). Existing uses must be maintained and cannot be removed.
<b>Functional Organization</b>	The summation of processes required for normal performance of a biological system (may be applied to any level of biological organization).
<b>Headwater Habitat Evaluation Index</b>	A modification of the QHEI that is applied at Primary Headwater Habitat stream sites.
<b>Index of Biotic Integrity (IBI)</b>	An integrative expression of site condition across multiple metrics comprised of attributes of a biological assemblage. It refers to the index developed by Karr (1981) and explained by Karr et al. (1986). It has been used to express the condition of fish, macroinvertebrate, algal, and terrestrial assemblages throughout the U.S. and in each of five major continents.
<b>Metric</b>	A calculated term or enumeration representing an attribute of a biological assemblage, usually a structural aspect, that changes in a predictable manner with an increased effect of human disturbance.
<b>Monitoring and Assessment</b>	The entire process of collecting data from the aquatic environment using standardized methods and protocols, managing that data, analyzing that data to make assessments in support of multiple program objectives, and disseminating the assessments to stakeholders and the public.
<b>Multimetric Index</b>	An index that combines assemblage attributes, or metrics, into a single index value. Each metric is tested

and calibrated to a scale and transformed into a unitless score prior to being aggregated into a multimetric index. Both the index and metrics are useful in assessing and diagnosing ecological condition.

**Narrative Biocriteria**

Written statements describing the narrative attributes of the structure and function of aquatic communities in a waterbody necessary to protect a designated aquatic life use.

**Natural Condition**

This includes the multiplicity of factors that determine the physical, chemical, or biological conditions that would exist in a waterbody in the absence of measurable impacts from human activity or influence.

**Numeric Biocriteria**

Specific quantitative and numeric measures of the structure and function of aquatic communities in a waterbody necessary to protect a designated aquatic life use.

**Primary Headwater Habitat**

A range in size of headwater streams generally less than 1.0 square mile in drainage area, but may be as large as 3.0 square miles. These are streams that are naturally and due to stream size alone incapable of supporting a fish assemblage consistent with the Warmwater Habitat (WWH) biological criteria. In such cases a different set of biological assemblages (lungless salamanders and invertebrates) and habitat assessment technique (Headwater Habitat Evaluation Index) are applied.

**Qualitative Habitat Evaluation Index**

A qualitative habitat evaluation assessment tool that is applied to streams and rivers in Ohio and which is used to identify habitat variables that are important to attainment of the Ohio biological criteria.

**Reference Condition**

The condition that approximates natural, unimpacted to best attainable conditions (biological, chemical, physical, etc.) for a waterbody. Reference condition is best determined by collecting measurements at a number of sites in a similar waterbody class or region under minimally or least disturbed conditions (by human activity), if they exist. Since undisturbed or minimally disturbed conditions may be difficult or



impossible to find in some states, least disturbed conditions, combined with historical information, models or other methods may be used to approximate reference condition as long as the departure from natural or ideal is comprehended. Reference condition is used as a benchmark to establish numeric biocriteria.

**Reference Site**

A site selected to represent an approximation of reference condition and by comparison to other sites being assessed. For the purpose of assessing the ecological condition of other sites, a reference site is a specific locality on a waterbody that is minimally or least disturbed and is representative of the expected ecological condition of other localities on the same waterbody or nearby waterbodies.

**Regional Reference Condition**

A description of the chemical, physical, or biological condition based on an aggregation of data from reference sites that are representative of a waterbody type in an ecoregion, subregion, bioregion, or major drainage unit.

**Stressors**

Physical, chemical, and biological factors that can adversely affect aquatic organisms. The effect of stressors is apparent in the biological responses.

**Use Attainability Analysis (UAA)**

A structured scientific assessment of the physical, chemical, biological or economic factors affecting attainment of the uses of waterbodies.

**Use Classes**

A broad capture of a designated use for general purposes such as recreation, water supply, and aquatic life.

**Use Subclasses**

A subcategorization of use classes into discrete and meaningful descriptions. For aquatic life this would include a hierarchy of warmwater and cold water uses and additional stratification provided by different levels of warmwater uses and further stratification by waterbody types.

**TALU Based Approach**

This approach includes tiered aquatic life uses (TALU) based on numeric biological criteria and

implementation via an adequate monitoring and assessment program that includes biological, chemical, and physical measures, parameters, indicators and a process for stressor identification.

**Tiered Aquatic Life Uses (TALUs)**

As defined: The structure of designated aquatic life uses that incorporates a hierarchy of use subclasses and stratification by natural divisions that pertain to geographical and waterbody class strata. TALUs are based on representative ecological attributes and these should be reflected in the narrative description of each TALU tier and be embodied in the measurements that extend to expressions of that narrative through numeric biocriteria and by extension to chemical and physical indicators and criteria.

As used: TALUs are assigned to water bodies based on the protection and restoration of ecological potential. This means that the assignment of a TALU tier to a specific waterbody is done with regard to reasonable restoration or protection expectations and attainability. Hence knowledge of the current condition of a waterbody and an accompanying and adequate assessment of stressors affecting that waterbody are needed to make these assignments.

**Total Maximum Daily Load (TMDL)**

The maximum amount of a pollutant that a body of water can receive while still meeting water quality standards. Alternatively, a TMDL is an allocation of a water pollutant deemed acceptable to attain the designated use assigned to the receiving water.

**Water Quality Standards (WQS)**

A law or regulation that consists of the designated use or uses of a waterbody, the narrative or numerical water quality criteria (including biocriteria) that are necessary to protect the use or uses of that particular waterbody, and an antidegradation policy.

**Water Quality Management**

A collection of management programs relevant to a water resource protection that includes problem identification, the need for and placement of best management practices, pollution abatement actions, and measuring the effectiveness of management actions.

### List of Acronyms

<b>AAV</b>	Area of Attainment Value
<b>ADV</b>	Area of Degradation Value
<b>ALU</b>	Aquatic Life Use
<b>CFR</b>	Code of Federal Regulations
<b>cfs</b>	cubic feet per second
<b>cfu</b>	colony forming units
<b>CSO</b>	Combined Sewer Overflow
<b>CWA</b>	Clean Water Act
<b>DC</b>	Direct Current
<b>DELT</b>	Deformities, Erosions, Lesions, Tumors
<b>DNR</b>	Department of Natural Resources
<b>D.O.</b>	Dissolved Oxygen
<b>DQO</b>	Data Quality Objective
<b>ECBP</b>	Eastern Corn Belt Plains
<b>EPT</b>	Ephemeroptera, Plecoptera, Trichoptera
<b>EWH</b>	Exceptional Warmwater Habitat
<b>GIS</b>	Geographic Information System
<b>GPS</b>	Global Positioning System
<b>HHEI</b>	Headwater Habitat Evaluation Index
<b>HUC</b>	Hydrologic Unit Code
<b>IBI</b>	Index of Biotic Integrity

<b>ICI</b>	Invertebrate Community Index
<b>IP</b>	Interior Plateau
<b>IPS</b>	Integrated Prioritization System
<b>LRAU</b>	Large River Assessment Unit
<b>LRW</b>	Limited Resource Waters
<b>MBI</b>	Midwest Biodiversity Institute
<b>MGD</b>	Million Gallons per Day
<b>MIwb</b>	Modified Index of Well-Being
<b>MPN</b>	Most Probable Number
<b>MSDGC</b>	Metropolitan Sewer District of Greater Cincinnati
<b>NPDES</b>	National Pollution Discharge Elimination System
<b>OAC</b>	Ohio Administrative Code
<b>OSUMB</b>	Ohio State University Museum of Biodiversity
<b>PAH</b>	Polycyclic Aromatic Hydrocarbons
<b>PCR-A</b>	Primary Contact Recreation – Class A
<b>PCR-B</b>	Primary Contact Recreation – Class B
<b>PCR-C</b>	Primary Contact Recreation – Class C
<b>PCR</b>	Primary Contact Recreation
<b>PEC</b>	Probable Effects Concentration
<b>PHWH</b>	Primary Headwater Habitat
<b>PSP</b>	Project Study Plan
<b>QHEI</b>	Qualitative Habitat Evaluation Index

<b>RM</b>	River Mile
<b>SCR</b>	Secondary Contact Recreation
<b>SRV</b>	Sediment Reference Value
<b>SSO</b>	Sanitary Sewer Overflow
<b>TALU</b>	Tiered Aquatic Life Use
<b>TDS</b>	Total Dissolved Solids
<b>TEC</b>	Threshold Effects Concentration
<b>TKN</b>	Total Kjeldahl Nitrogen
<b>TMDL</b>	Total Maximum Daily Load
<b>TSS</b>	Total Suspended Solids
<b>UAA</b>	Use Attainability Analysis
<b>UTM</b>	Universal Transverse Mercator Coordinate
<b>VOC</b>	Volatile Organic Compound
<b>WAU</b>	Waterbody Assessment Unit
<b>WQS</b>	Water Quality Standards
<b>WWH</b>	Warmwater Habitat
<b>WWTP</b>	Wastewater Treatment Plant

## FOREWORD

### **What is a Biological and Water Quality Survey?**

A biological and water quality survey, or “biosurvey”, is an interdisciplinary monitoring effort coordinated on a waterbody specific or watershed scale. This may involve a relatively simple setting focusing on one or two small streams, one or two principal stressors, and a handful of sampling sites or a much more complex effort including entire drainage basins, multiple and overlapping stressors, and tens of sites. The latter is the case with this study in that Little Miami River represents a collection of tributary watersheds and two mainstem river assessment units that have a complex mix of overlapping stressors and sources in a setting that ranges from developed urban to suburban to rural. This assessment is a follow-up to a similar series of Little Miami River and tributary surveys performed by Ohio EPA in 1983, 1989, 1998, and 2007. While the principal focus of a biosurvey is on the status of aquatic life uses, the status of other uses such as recreation and water supply, as well as human health concerns, can also be assessed.

### **Scope of the Little Miami River and Tributaries Biological and Water Quality Assessment**

The Little Miami River and Tributaries Biological and Water Quality Assessment gathered relevant information to determine and wherever possible explain current conditions. Understanding and improving water quality is an important component of Project Groundwork, the largest capital improvement program to reduce CSOs within the MSDGC service area. The Duck Creek watershed contains the most extensive concentration of CSOs in the study area while most other tributaries and the mainstem are impacted by urban development and sanitary wastewater flows.

This assessment was designed to address three major objectives:

1. Determine the extent to which biological assemblages, habitat, and water quality are impaired (using Ohio EPA methods and criteria);
2. Determine the categorical stressors and sources that are associated with those impairments wherever possible; and,
3. Contribute to the existing databases for the Little Miami River and Tributaries to track and better understand changes through time that occur as the result of abatement actions or other factors.

The data presented herein were processed, evaluated, and synthesized as a biological and water quality assessment of aquatic life and recreational use status. This assessment is directly comparable to those accomplished previously by Ohio EPA, such that long term trends in status can be examined, and causes and sources of impairment can be confirmed, appended, or removed. This report includes a summary of major findings and recommendations for future monitoring, follow-up investigations, and any immediate actions that may be needed to resolve readily diagnosed impairments. The baseline data established by this study contributes to a process termed the Integrated Priority System (IPS) that is being developed to help determine and prioritize remedial projects for the MSDGC service area.

## EXECUTIVE SUMMARY

### Scope and Purpose

In 2010 MSDGC and MBI began developing a plan that would lead to ways to identify and potentially align Project Groundwork to assist in improving water quality in the MSDGC service area. The initial step was a four- year rotational watershed assessment plan that would produce applicable biological and water quality monitoring data that would assist MSDGC in its capital planning. The 2012 bioassessment of the Little Miami River and tributaries is the second of four years of sampling and analysis that is being conducted following the design of a comprehensive plan for the MSDGC service area (MBI 2011). The emphasis of each annual bioassessment is to determine the status of aquatic life and recreational uses as they are defined in the Ohio Water Quality Standards (WQS) and as assessed by Ohio EPA. The sampling and analysis is performed by Level 3 Qualified Data Collectors and under a Project Study Plan approved by Ohio EPA under the specifications of the Ohio Credible Data Law.

An intensive pollution survey design that employs a high density of sampling sites and biological, chemical, and physical parameters was followed. The principal objectives of the assessment were to verify existing aquatic life and recreational use designations, assign such uses to unlisted streams and stream segments, make recommendations for any changes to existing use designations, report attainment status following Ohio EPA practices, and determine associated causes and sources of impairment wherever possible. The determination of causes and sources of impairments to aquatic life and recreational uses also followed practices similar to those employed by Ohio EPA. As such, these determinations are typically categorical as opposed to the identification of specific pollutants. However, the results of this study will be incorporated in a regional assessment of stressors and their root causes and sources throughout the MSDGC service area and adjoining ecoregions and subregions. This will include more detailed analyses of regional patterns in limiting stressors and it will include the data generated by the annual bioassessments, historically available biological, chemical, and physical data, and ancillary data available in GIS coverages. Termed the Integrated Prioritization System (IPS) it will assist MSDGC and others in better evaluating and designing restoration projects.

The 2012 study area included the Little Miami River mainstem from U.S. Rt. 22 (RM 27.9) to downstream from Kellogg Ave. immediately upstream from the mouth of the Ohio River. The East Fork of the Little Miami River was included from immediately downstream from the Harsha Reservoir outlet (RM 19.5) to the confluence with the Little Miami River (RM 11.5). While the East Fork is technically outside of the MSDGC service area, it was included in the survey because of its potentially significant influence on the Little Miami River mainstem and on the interpretation of the 2012 results. Similarly, tributaries such as O'Bannon Creek were included as well. All service area tributaries and their watersheds were included in the 2012 survey with sampling sites located in the upper reaches at drainage areas of <math><1.0\text{ mi}^2</math>. All potential pollution sources were bracketed with sampling sites and also to reveal the extent and severity of impairments in proximity to individual and aggregated sources of impact on water quality, habitat, and biological condition.

### Summary of Findings

#### ***Aquatic Life Use Attainability Analysis***

A major objective of the MSDGC bioassessments is to determine if existing aquatic life uses presently assigned to streams and rivers in the MSDGC service area are appropriate and attainable. In terms of the recommended use changes highlighted in Table 1 only 3 deal with changing current designated uses for the major mainstem rivers and tributaries. Most of the recommendations include previously undesignated streams as Warmwater Habitat (WWH) or previously undesignated streams as Primary Headwater Habitat (PHWH). A detailed listing of use changes appears in the recommendations section (Table 3).

*Table 1. Summary of recommended aquatic life use changes based on use attainability analyses conducted for the 2012 Little Miami River biological and water quality assessment.*

<b>Current Aquatic Life Use</b>	<b>Recommended Aquatic Life Use/Classification</b>	<b>Number of Segments Affected</b>
None	WWH	11
None	LRW	1
None	PHWH 3A	8
None	PHWH 2	7
WWH	PHWH 3A	1
LRW	WWH	1
LRW	PHWH 1	1

WWH – Warmwater Habitat; LRW – Limited Resource Waters; PHWH – Primary Headwater Habitat

The dry weather conditions experienced in 2012 were taken into account in reviewing and recommending revised use designations, especially for the smaller streams.

#### ***General Conditions in the Little Miami River and Tributaries***

The primary indicator of overall condition in terms of aquatic life is the status of recommended and existing aquatic life use designations based on attainment of the Ohio biological criteria (OAC 3745-1-07, Table 14). The status of these uses is portrayed as full, partial, or non-attainment as explained in the methods section. A map of the attainment and classification status of the 108 sites sampled in 2012 is depicted in Figure 1 and summarized in the conclusions section (Table 4). Of the 111 sites assessed in 2012, 93 were evaluated under the Warmwater suite of uses (2 additional sites were dry) and the remaining 16 under the Primary Headwater assessment methodology. In all, only 19 of 93 sites fully attained their applicable aquatic life use. A total of 43 sites were in partial attainment and 31 were in non-attainment. Of the 16 Primary Headwater sites, 7 were PHWH Class 2 and 9 were PHWH Class 3A.



***Causes and Sources of Non-attainment***

The determination of causes and sources of aquatic life use impairment was accomplished by associating exceedances of various chemical and physical thresholds that are known to adversely affect aquatic organisms. These assignments are in most cases categorical (e.g., habitat alterations, nutrient enrichment) and may include multiple types of effects and mechanisms. Some can be parameter specific (e.g., dissolved oxygen) since the data are collected at that level. Yet others are at the category of parameter level (e.g., heavy metals, PAHs) which may include multiple parameters that are analyzed. In addition, some parameters can be proxies for a wider range of more specific causes. Sources are also necessarily categorical and can vary in their inclusion of or connection to specific activities. The causes and sources that we listed along with the biological impairments appear in the Determination of Aquatic Life Use Attainment Status section. Eleven (11) different causal categories and 10 different source categories were identified for the 2012 study area (Table 2). Of these causes, flow alteration, chlorides, and organic enrichment were the most frequently listed with urban runoff the most frequently listed source. Classic pollutants such as ammonia, oxygen demanding substances, and toxic substances were listed only infrequently and then in localized reaches.

*Table 2. Summary of causes and sources associated with biological impairments in the 2012 Little Miami River study area.*

Cause	Number	Source	Number
Flow modification	40	Urban Runoff	59
Chlorides	33	Combined Sewers	14
Organic enrichment	31	Unknown	13
D.O.	17	WWTP	10
Nutrients	12	Natural	9
Metals	12	Habitat Modification	4
Habitat	8	Dam Release	3
Siltation	4	Agricultural NPS	2
Ammonia	2	Impoundment	1
Loss of Connectance	2	Unsewered	1
Unknown	2		

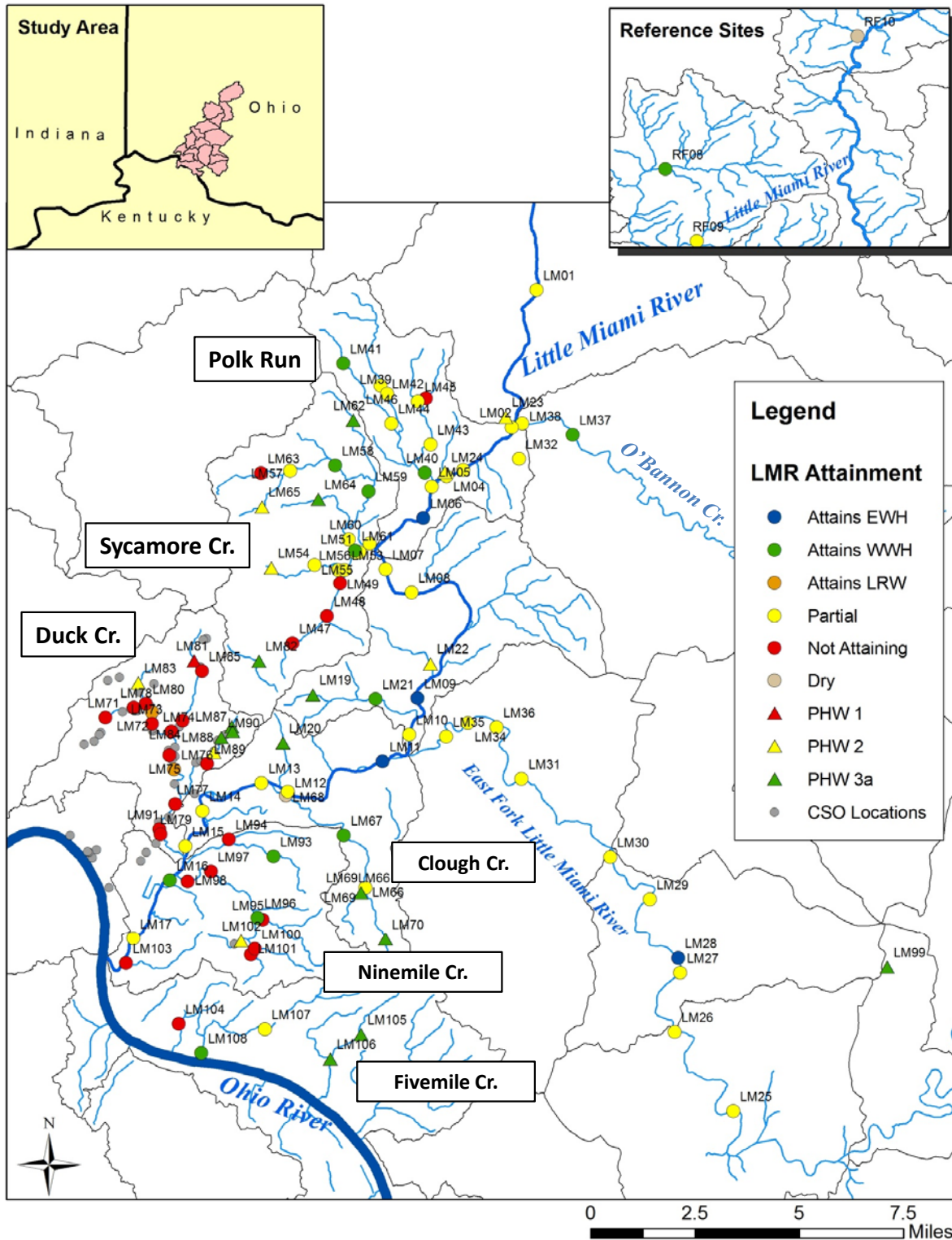


Figure 1. Aquatic life use attainment status for the Warmwater Habitat suite of aquatic life use tiers in the Little Miami River study area during 2012. Site codes correspond to those described in Table 5 of the study area description. Sites recommended for evaluation as Primary Headwater Habitat (PHWH) appear as triangles with their classification results. CSO locations appear as light grey circles.

### ***Trajectories in Key Indicators***

The 2012 assessment of the Little Miami River and tributaries provides an opportunity to gauge the effectiveness of past and ongoing attempts to improve and maintain water quality and biological conditions by comparing the 2012 results to similarly conducted prior assessments. A series of four biological and water quality surveys by Ohio EPA dating to 1983 and as recently as 2007 provide the most consistent comparison in terms of spatial coverage, methods, and indicators and parameters. The focus herein is on comparative assessments of the Little Miami River and East Fork mainstems.

Developing an understanding of the temporal trajectory of the key indicators and parameters that comprise an adequate monitoring approach to the assessment of a watershed or water body is crucial in providing feedback to the variety of stakeholders that are involved with the Little Miami River. Given that the Little Miami River is impacted by a variety of watershed level and site-specific impacts the complexity of being able to understand and then develop management responses to observed problems is a complex challenge. While the arbiter of success has almost exclusively focused on the full restoration of listed impairments, in the case of the Little Miami River mainstem the focus is also on maintaining an already existing high quality consistent with the prevailing use designation of Exceptional Warmwater Habitat (EWH). The ability to show incremental change is critical for providing important feedback about the effectiveness of water quality management efforts which must be adaptive in order to succeed. As such, the type of monitoring and assessment that was employed in this survey was designed to provide results that could be used to demonstrate the degree and direction of incremental change.

The results of the bioassessment using the primary indices that comprise the Ohio biocriteria were used to quantify the degree to which overall aquatic life conditions have changed through time up to and including the 2012 survey. The Area of Degradation (ADV) and Attainment (AAV) methodology (Yoder and Rankin 1995b; Yoder et al. 2005) was used to illustrate the degree of change between the Ohio EPA surveys of 1983, 1993, 1998, and 2007 and the 2012 MSDGC survey in the mainstems of the Little Miami and East Fork Little Miami Rivers. The ADV/AAV term is a quantitative expression of the degree to which the biological index values are either above or below the applicable biocriterion and the lineal distance of river over which it occurs. As such it is a numerical expression of the “quantity” of biological attainment or impairment. When normalized to a standard distance (e.g., per mile) it can be an effective indicator of the degree of incremental change that is taking place over time.

### ***Little Miami River Mainstem***

The change in ADV/AAV results for the Index of Biotic Integrity (IBI), the Modified Index of Well-Being (MIwb), and the Invertebrate Community Index (ICI) between the series of Ohio EPA surveys in 1983, 1993, 1998, and 2007 and the 2012 MSDGC survey indicates an overall decline in biological condition compared to 2007 (Figure 2). The IBI in particular exhibited a decline in the AAV and an increase in the ADV when compared to the 2007 values. A general decline in the MIwb and ICI was evident in lower AAV values as opposed to any substantial increases in ADV values compared to 2007. In fact, the 2012 results for the IBI, MIwb, and ICI were similar

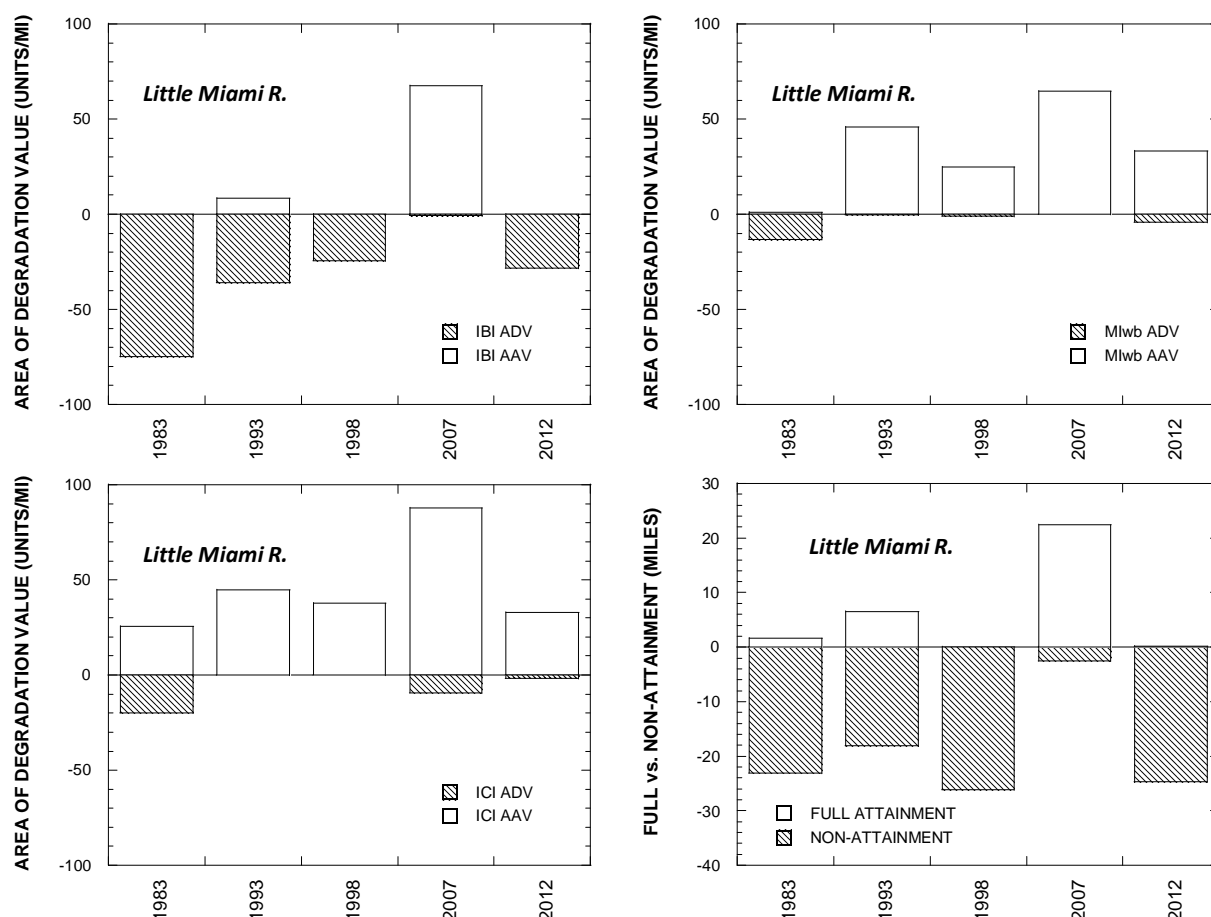


Figure 2. Area of Degradation (ADV) and Area of Attainment (AAV) values for the IBI (upper left), MIwb (upper right), and ICI (lower right) in the lower Little Miami River mainstem between 1983 and 2012. The miles of full and non-attainment of the Exceptional Warmwater Habitat (EWH) use designation for all sample years for the lower Little Miami River mainstem are depicted in the lower right panel. ADV is expressed as a negative value, AAV as a positive value with increases in ADV signaling degradation, increases in AAV signaling improvement.

to the 1998 results. Attainment status also showed a marked decline in 2012 due primarily to IBI scores failing to meet the EWH biocriteria resulting in partial attainment for much of the mainstem in 2012.

*East Fork Little Miami River*

The East Fork Little Miami River was sampled between the Harsha Reservoir outlet and the mouth in 2012. The change in ADV/AAV results for the IBI, MIwb, and the ICI between the series of prior Ohio EPA surveys in 1982, 1993, and 1998 and the 2012 MSDGC survey indicates a consistent and overall decline in biological condition since 1982 (Figure 3). The IBI in particular showed a consistent decline in each successive year with the near complete loss of AAV in 1998 and 2007 and an increase in the ADV through 2012 more than doubling the largest prior value in 1993. The MIwb and ICI changes were more in the reduction of AAV units with

the ADV being perceptible only for the MIwb in 2012. In terms of miles of full and non-attainment, zero miles were in full attainment in 2012 continuing a decline that was first noted by Ohio EPA between 1993 and 1998.

**Recreational Use Status**

Impairment of recreation uses in the lower Little Miami River study area was not uncommon. The Primary Contact (PC) or Secondary Contact (SC) 30-day geometric mean criterion were exceeded at 53 of 89 sites sampled. The PC 30-day criterion was also exceeded at 1 of the reference sites (RF09, Dry Run). High minimum values were highlighted as an indicator of chronic bacterial impairment and at some sites minimum values greater than the geometric mean PC criterion underscored the higher frequency of exceedances observed throughout the study area. Identifying the sources of fecal bacteria in urban areas can be a complex process, but in the lower Little Miami River it is likely related to combined sewer overflows (CSOs), sanitary sewer overflows (SSOs), urban runoff, and unsewered areas.

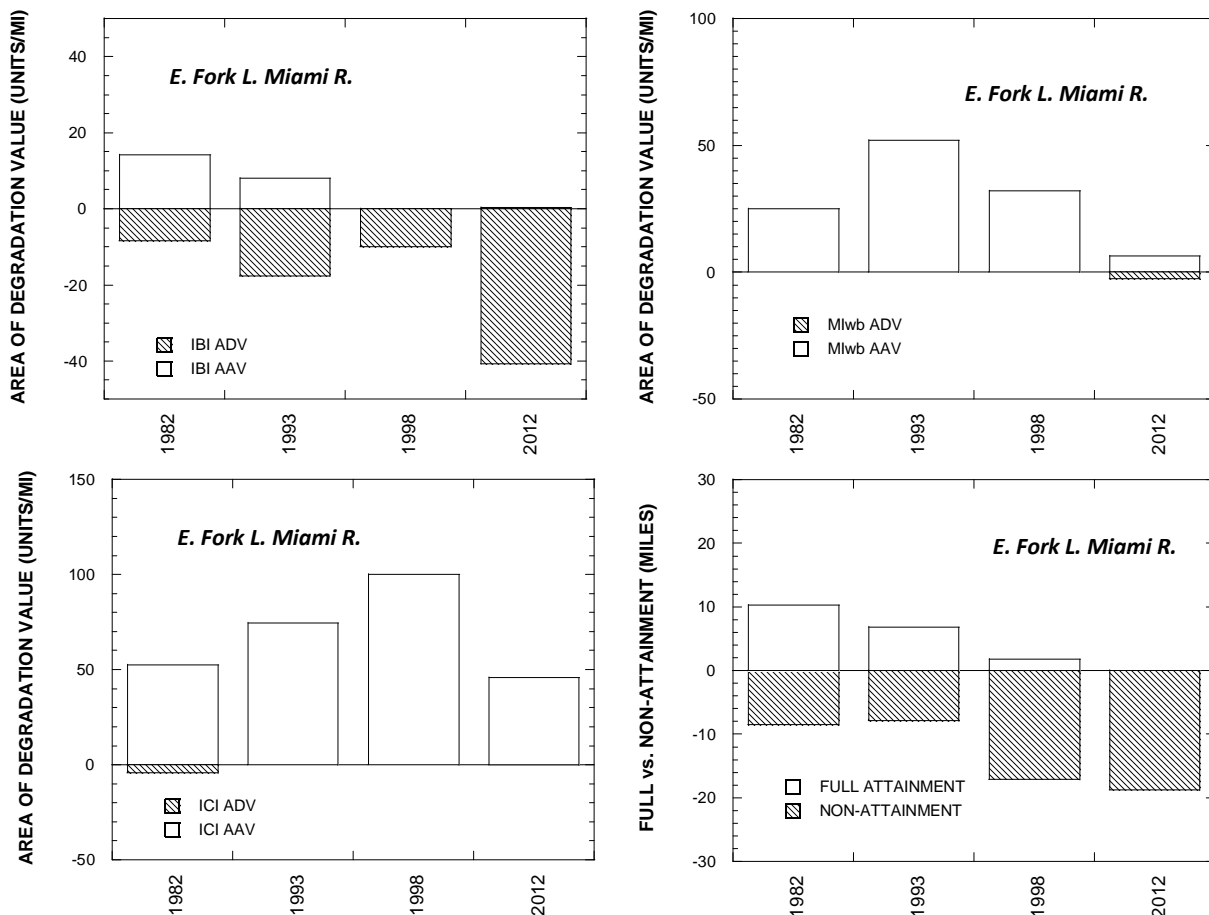


Figure 3. Area of Degradation (ADV) and Area of Attainment (AAV) values for the IBI (upper left), MIwb (upper right), and ICI (lower right) in the East Fork Little Miami River mainstem between 1982 and 2012. The miles of full and non-attainment of the Exceptional Warmwater Habitat (EWH) use designation for all sample years for the East Fork Little Miami River mainstem are depicted in the lower right panel. ADV is expressed as a negative value, AAV as a positive value with increases in ADV signaling degradation, increases in AAV signaling improvement.

## CONCLUSIONS and RECOMMENDATIONS

### Little Miami River Study Area Designated Use Attainment Status

A principal objective of the MSDGC service area watershed bioassessment plan is to evaluate existing aquatic life and recreational use designations and to recommend new uses for undesignated or unverified streams and recommend changes to current uses when appropriate. Ohio EPA last reviewed the aquatic life and recreational designations in parts of the 2012 Little Miami River study area in 2007 when they completed their most recent biological and water quality survey (Ohio EPA 2009). Although not formally codified in the Ohio WQS, the Primary Headwater Habitat (PHWH) classification scheme and the subclasses for such headwater streams based on flow, habitat, and biological assemblages (macroinvertebrates and salamanders) that are unique to these streams was used as an assessment endpoint. The PHWH potential was considered alongside the recommendations for unnamed streams and revisions to current aquatic life uses within the codified suite of Warmwater Habitat uses. Aquatic life use attainment status was then determined by comparing the biological index values derived from the fish and macroinvertebrate assemblages to the biological criteria in the Ohio WQS (OAC 3745-1) for the recommended uses. The results of this process for each site in the 2012 Little Miami River study area are presented herein. In addition, the causes and sources that were associated with biological impairments were also identified.

The status of current recreational uses was likewise assessed by determining the attainability of the applicable recreational use tier and then basing the status assessment on the verified or recommended recreational use. Ohio EPA recognizes two major categories of recreational uses, Primary Contact Recreation (PCR) and Secondary Contact Recreation (SCR). The PCR use has three subcategories (A, B, and C) based on the plausibility of different levels of human body contact recreation in and on the water.

#### ***Aquatic Life Use Recommendations***

Existing aquatic life uses in the Ohio WQS consist of either verified uses based on the results of a biosurvey or unverified or “default” uses based on designations first made in the 1978 and 1985 Ohio WQS. Unverified designations were based largely on best professional judgment as the present-day biological assessment methods and numerical biocriteria simply did not exist at that time. Many of the smaller streams did not have a use listed in the Ohio WQS, but in lieu of that they are generally considered to have a default WWH use. Discussion of the assignment of designated uses is organized by the Hydrologic Unit Code (HUC)-12 watershed scale (Watershed Assessment Units = WAUs) or Large River Assessment Unit (LRAU) used by Ohio EPA.

#### ***Little Miami River Mainstem and Direct Tributaries***

The Little Miami River mainstem has a verified EWH aquatic life use designation based on prior Ohio EPA assessments (Ohio EPA 2009). Since it was first designated by Ohio EPA as EWH in 1983 it is an existing use and as such there is no need to validate it with the 2012 results.

*Table 3. Assessment of existing aquatic life use (ALU) designations in the 2012 Little Miami River watersheds study area. The respective biological assemblage and habitat assessment results are summarized along with the existing ALU. The recommended ALU is also listed and represents a change if different from the existing ALU.*

Stream	No. of Sites	Size (mi <sup>2</sup> )	Habitat Evaluation	Fish Evaluation	Macro. Evaluation	Existing ALU	Recommended ALU
<b>LRAU 90-02 – Little Miami River</b>							
Little Miami River [11-001]	17	1760.00	Fair-Excellent	Fair-Very Good	Good-Excellent	EWH <sup>a</sup>	EWH <sup>a</sup>
Unnamed Trib to Little Miami River at RM 0.83 [11-047]	1	1.70	Good	Excellent	Poor	None	WWH
Unnamed Trib to Little Miami River at RM 13.1 [11-066]	1	3.00	Good	Good	Good	None	WWH
Unnamed Trib to Little Miami River at RM 7.75 [11-067]	1	0.50	Good	NA	NA	None	PHW3A
Unnamed Trib (RM 2.7) to Unnamed Trib to Little Miami R. [11-068]	1	0.60	Excellent	NA	NA	None	PHW3A
Unnamed Trib to Little Miami River at 24.06 [11-082]	1	1.60	Fair	NA	NA	None	PHW2
Unnamed Trib to Little Miami River at RM 21.82 [11-083]	1	0.80	Fair	NA	NA	None	PHW2
Unnamed Trib to Little Miami River at 13.8 [11-085]	1	1.20	Good	NA	NA	None	PHW2
<b>WAU 09-02 – O’Bannon Creek</b>							
O’Bannon Creek [11-010]	2	59.00	Good	Fair-Excellent	Good	WWH	WWH
<b>WAU 14-02 – Polk Run</b>							
Polk Run [11-009]	3	10.00	Good-Excellent	Fair-Excellent	Marg. Good-Good	WWH	WWH
Unnamed Trib to Polk Run at RM 1.79 [11-069]	2	2.40	Good-Excellent	Fair-Good	Marg. Good-Good	None	WWH
Unnamed Trib to Polk Run at RM 0.70 [11-070]	2	2.50	Excellent	Fair	Fair-Marg. Good	None	WWH
Unnamed Trib (RM 1.77) to Unnamed Trib to Polk Run [11-071]	1	1.10	Good	Fair	Good	None	WWH
<b>WAU 14-01 – Sycamore Creek</b>							
Sycamore Creek [11-007]	6	23.30	Fair-Good	Poor-Excellent	Fair-Good	WWH	WWH
North Branch Sycamore Creek [11-008]	5	9.90	Good-Excellent	Fair-Excellent	Good	WWH	WWH
Trib To Sycamore Cr. (RM 1.12) [11-049]	3	5.70	Good	Poor-Fair	Good	None	WWH
Unnamed Trib to N Branch Sycamore Creek at RM 5.3 [11-072]	1	0.30	Fair	Na	Na	None	PHW2
Unnamed Trib to N Branch Sycamore Creek at RM 5.4 [11-073]	1	1.10	Good	Fair	Poor	None	WWH
Unnamed Trib to N Br Sycamore Cr at RM 0.75 [11-074]	1	0.50	Good	Na	Na	None	PHW3A
Trib to North Branch Sycamore Creek at RM 2.33	1	0.60	Good	Na	Na	None	PHW3A

*Table 3. Assessment of existing aquatic life use (ALU) designations in the 2012 Little Miami River watersheds study area. The respective biological assemblage and habitat assessment results are summarized along with the existing ALU. The recommended ALU is also listed and represents a change if different from the existing ALU.*

Stream	No. of Sites	Size (mi <sup>2</sup> )	Habitat Evaluation	Fish Evaluation	Macro. Evaluation	Existing ALU	Recommended ALU
[11-084]							
Unnamed Trib (1.82) to Trib to Sycamore Creek (1.1 [11-086])	1	1.60	Fair	Na	Na	None	PHW2
<b>WAU 13-05 – East Fork Little Miami River</b>							
East Fork Little Miami River [11-100]	11	499.00	Fair-Excellent	Fair-Very Good	Excellent	EWH	EWH
<b>WAU 14-05 – Dry Run</b>							
Dry Run [11-005]	4	5.40	Fair-Excellent	Fair-Good	Good	WWH	PHW3aW WH
Trib to Dry Run (4.20) [11-064]	1	0.90	Good	Na	Na	None	PHW3A
<b>WAU 14-04 – Duck Creek</b>							
Duck Creek [11-004]	9	14.60	Very Poor-Poor	Very Poor-Fair	Very Poor-Fair	LRW	LRW
East Fork Duck Creek [11-051]	4	3.40	Poor-Fair	Poor	Very Poor	LRW	PHW-I/ WWH
Unnamed Trib to Duck Creek at RM 4.8 [11-075]	2	1.40	Poor-Fair	Na-Very Poor	Na-Very Poor	None	PHWII/ LRW
Little Duck Creek [11-076]	6	1.70	Poor-Good	Fair	Poor-Good	None	WWH
Unnamed Trib to Little Duck Creek at RM 4.42 [11-077]	1	1.40	Good	Na	Na	None	PHW3A
<b>WAU 14-06 Clough Creek</b>							
Clough Creek [11-002]	5	8.00	Good	Poor-Good	Fair-Good	WWH	WWH
McCullough Run [11-003]	1	1.70	Poor	Fair	Very Poor	WWH	WWH
Unnamed Trib to McCullough Run at RM 1.08 [11-078]	1	0.90	Good	Very Good	Fair	None	WWH
Trib to Unnamed Trib to Clough Creek at RM3.06 [11-079]	1	0.70	Good	Poor	Fair	None	WWH
UT at RM 0.66 to UT to Clough Creek at RM 3.06 [11-080]	1	1.10	Good	Na	Poor	None	PHW2
UT at RM 0.95 to UT to Clough Creek at RM 3.06 [11-081]	1	0.90	Good	Poor	Poor	None	WWH
<b>WAU 12-08 Five Mile Creek – Ohio River</b>							
Five Mile Creek [10-001]	2	4.80	Good	Fair-Excellent	Marg. Good	WWH	WWH
Eight Mile Creek [10-002]	1	0.80	Excellent	Na	Na	None	PHW3A
Trib to Eight Mile Creek at RM 1.01 [10-130]	1	1.10	Good	Na	Na	None	PHW3A
Four Mile Creek [10-537]	1	1.10	Good	Poor	Fair	WWH	WWH
<b>WAU 08-03 Turtle Creek</b>							
Turtle Creek [11-021]	1	22.50	Good	Good	Marg. Good	WWH	WWH
Dry Run [11-022]	1	4.90	Good	Good	Fair	WWH	WWH
Newman Run [11-030]	1	9.50	Na	Na	Na	EWH	EWH

<sup>a</sup>lower 3 miles are in the Ohio River influenced/impounded reach and designated WWH.



The tributary to the Little Miami River at RM 0.83 (LM103, 11-047) has sufficient habitat (QHEI=65), depth and flow to support the WWH use. Sampling revealed 17 fish species (IBI=52) that may be the result of the close proximity to the Little Miami River mainstem. The macroinvertebrate assemblage was evaluated as poor. The tributary to the Little Miami at RM 13.1 (LM21, 11-066) also had sufficient habitat (QHEI=63), depth, and flow to merit a WWH recommendation and both assemblages attained WWH. The tributary to the Little Miami River at RM 7.75 (LM20, 11-067) was too small (0.5 mi.<sup>2</sup>) and shallow to support a WWH assemblage, but larval two-lined salamanders were collected thus it is recommended as a PWH3A stream. Similarly, the tributary (RM 2.7) to the tributary to the Little Miami River at RM 7.75 (LM19, 11-068) was too small (0.6 mi.<sup>2</sup>) and shallow to support WWH, but two-line salamanders were collected thus it is recommended as PHW3A. The remaining three tributaries (LM23, 11-082; LM24, 11-083; and LM22, 11-085) were ephemeral, but due to natural conditions (HHEI = 50, 50, and 58) and they are recommended as PHW2 (intermittent).

#### *Designated Aquatic Life Uses in WAU 13-05 - East Fork Little Miami River*

Only the mainstem East Fork Little Miami River was sampled in this WAU and it already has an existing, verified EWH aquatic life use designation that has been verified during multiple survey events.

#### *Designated Aquatic Life Uses in WAU 14-01 - Sycamore Creek*

Eight streams were sampled in this watershed and only two had verified, existing aquatic life uses, Sycamore Creek (11-007) and the North Branch of Sycamore Creek (11-008), and both are existing and verified WWH. Of the undesignated streams two, the tributary to Sycamore Creek at RM 1.12 (LM53, LM55, LM56; 11-049) and the tributary to the North Fork of Sycamore Creek at RM 5.4 (LM 63, 11-073), are recommended as WWH. The first (11-049) at 5 mi.<sup>2</sup> is clearly deep enough to support WWH assemblages it has good quality macroinvertebrate assemblages. The tributary to the North Branch of Sycamore Creek is smaller (1.1 mi.<sup>2</sup>), but has sufficient depth and habitat and a fish IBI score near WWH attainment (IBI=32). The remaining streams in the Sycamore Creek subwatershed are recommended as PHWH. The two tributaries to the North Branch of Sycamore Creek (LM64, 11-074; LM62, 11-084) are recommended as PHW3A because of the presence of larvae of two-lined salamanders and good HHEI scores. The other two streams were ephemeral (LM 65, 11-072, tributary to N. Branch at RM 5.3 and LM54, 11-086, tributary to a tributary (RM 1.82) to Sycamore Creek at RM 1.12) due to natural conditions and are recommended as PHW2 (intermittent).

#### *Designated Aquatic Life Uses in WAU 14-02 – Polk Run – Little Miami River*

Polk Run has an existing and verified WWH use. Three tributaries to Polk Run (LM41, LM44, 11-069; LM42, LM43, 11-070; LM45, 11-071) were assessed and recommended as WWH. All have QHEI scores >70 and sufficient depth to support WWH assemblages. Four of the five sites meet WWH for macroinvertebrates and one of the five fish samples attained as well.

#### *Designated Aquatic Life Uses in WAU 14-04 – Duck Creek*

In this watershed Duck Creek and the East Fork of Duck Creek (*aka* Deerfield Run) have a verified LRW aquatic life use. Any aquatic life use lower than WWH is reviewable every three-

years. Duck Creek was assigned the Limited Resource Waters (LRW) use because for much of its length has been converted to a concrete channel, largely devoid of any aquatic habitat. The 2012 data has not changed that assessment and the stream remains limited by the concrete channels that comprise much of the length of Duck Creek. However, the 2012 results show that the East Fork of Duck Creek (11-051, sites: LM81, LM85, LM84, LM74) is not consistent with the LRW use. The original designation was likely been made based on either limited assessment data or an extrapolation of the results from Duck Creek. Although highly urbanized, most of the stream channels except at LM84 are natural. The most upstream site that is not underground (LM81) is habitat limited and ephemeral and is recommended as PHW1 (ephemeral). Two of the three downstream sites have natural channels and habitat consistent with WWH, thus it is recommended for the East Fork. The upper portion of the tributary to Duck Creek at RM 4.8 (LM83, 11-075) was ephemeral and is recommended as PHW2 (intermittent). The lower site (LM80) was extensively altered and considered isolated by its confluence with the concrete channel of Duck Creek, thus it is recommended for LRW.

Three other tributaries that were not previously monitored were sampled. The largest of these was Little Duck Creek (11-076). Unlike Duck Creek, channels in this stream were mostly natural, although stretches showed the effects of the urban nature of the watershed. The upper portions (>RM 2.30; sites LM86, LM87, LM90) are recommended as WWH. These sites were rated as good or marginally good for macroinvertebrates and were just below the WWH headwater biocriterion of 36 for fish (all sites >34). One issue that arose when examining these sites was the difficulty in determining the upper boundary of the watershed from the upper reaches of the Sycamore Creek watershed. The USGS Stream Stats tool, which we used for watershed delineations, identified the upper reaches of the Little Duck Watershed as part of the Sycamore Creek watershed. If this is not the case, then the drainage area of the Little Duck would increase and IBI scores when calculated at the larger drainage areas could decline somewhat.

From RM 1.80 downstream Little Duck Creek lost flow, largely because of the urban nature of the watershed and because of natural losses to groundwater as it approached the Little Miami River. At this point we recommend that the lower reaches also be designated as WWH until the nature of the flow issues in the lower reaches can be resolved. The tributary to Little Duck Creek (LM82) was small and there was too little flow for fish sampling; however, primary headwater monitoring resulted in a high HHEI score (76) and the presence of larvae of two-lined salamander, thus it is recommended as a PHW3A.

#### *Designated Aquatic Life Uses in WAU 14-05 – Dry Run*

In this watershed Dry Run (11-005) had a verified, existing WWH aquatic life use. The monitoring that occurred historically in Dry Run was conducted in larger downstream reaches. A site in the headwaters of Dry Run (LM70, RM 5.60-5.70, 0.80 mi.<sup>2</sup>) was assessed and it is recommended as PHW3A due to its small size, good HHEI (62), and presence of larval two-lined salamanders. The remainder of Dry Run should maintain the verified and existing WWH use. The undesignated tributary at RM 4.2 (LM69) was too small and shallow for the WWH use and

it is recommended as a PHW3A because of a good HHEI score (70) and the presence of larval two-lined salamanders.

#### *Designated Aquatic Life Uses in WAU 14-06 – Clough Creek*

In this watershed two streams with existing, verified aquatic life uses, Clough Creek (11-002) and McCullough Run (11-003), were assessed. Three small undesignated tributaries were also assessed. The unnamed tributary to McCullough Run at RM 1.08 should be designated as WWH. It has sufficient depth and habitat to meet WWH and the site (LM93) currently attains the WWH biocriteria for fish and macroinvertebrates. The unnamed tributary (0.95) to an unnamed tributary of Clough Creek (RM3.06, LM100) has sufficient habitat (QHEI = 60.7), depth, and flow to support WWH.

#### *Designated Aquatic Life Uses in WAU 12-08 - Nine Mile Creek*

Three of the four streams sampled in this watershed have existing and verified aquatic life uses. The unnamed tributary to Eight Mile Creek at RM 1.01 (LM106) is undesignated. Although it has good aquatic habitat (QHEI = 71.5) its small size (1.1 mi.<sup>2</sup>) and shallow depths suggest that a PHWH classification is more appropriate. Because of the presence of larvae of two-lined salamanders we recommend a PHW3A.

#### *Designated Aquatic Life Uses in WAU 08-03 - Turtle Creek and WAU 09-02 - O'Bannon Creek*

The streams in the Turtle Creek watershed were sampled as reference sites for the Little Miami River study and their aquatic life use attainability was assessed by Ohio EPA during the 1998 bioassessment (Ohio EPA 2000). Similarly, the WWH use for O'Bannon Creek has also been verified during earlier Ohio EPA surveys. As such, the existing uses have been established.

One last note of importance is the influence of low flow conditions during 2012 when interpreting aquatic life use potential in small streams in the interior plateau (IP) ecoregion. Newman Run fully attained EWH during the 1998 Ohio EPA bioassessment, yet it was dry during both the fish and macroinvertebrate sampling visits in 2012 despite a 9 mi.<sup>2</sup> drainage area. Fish IBI scores were mostly in the 50s during sampling across four years between 1983 and 2002, although macroinvertebrates were in the fair range during previous visits which was attributed to low flows (Ohio EPA 2000). The influence of the extremely low flow conditions during 2012 will be an important consideration in assigning aquatic life uses based on only on data from 2012.

#### ***Aquatic Life Use Attainment Status***

The status of aquatic life use attainment in the 2012 Little Miami River study area was determined based on the verified and recommended use designations discussed previously and in accordance with Ohio EPA methods and practice. In addition to listing the status of each site, the proximate causes and sources are also indicated for any impaired sites (Table 4). The following is a summary of the findings of the 2012 biological and water quality study highlighting the attainment status based on recommended aquatic life uses, key aspects of biological condition and water quality, and a summary of the causes and sources that were assigned to impaired sites.

*Little Miami River*

- Of the 17 Little Miami R. mainstem sites that were evaluated under the Warmwater Habitat suite of uses and biocriteria, 3 were in full attainment of the Exceptional Warmwater Habitat (EWH) use, 12 in partial attainment of EWH, and none in non-attainment of EWH; of the two WWH sites at the mouth, one site was in full attainment and the other in partial attainment.
- The 2012 results represent a decline in attainment status compared to the most recent 2007 Ohio EPA results when all except the most downstream site were in full attainment of EWH and reflected a significant improvement over 1998. The pattern in 2012 indicates that the decline in quality emanates from upstream of the 2012 study area with no local sources being strongly associated with the declines. Flow conditions were generally similar between 2012 and 2007 and reflected below median flows during each year.
- The decline in 2012 was the result of the failure of the fish Index of Biotic Integrity (IBI) to meet the EWH biocriterion. Only three of 15 values technically met the EWH biocriterion, but these were at the boundary of the insignificant departure for this index, further underscoring the below expected performance of the fish assemblage.
- The reduction in the quality of the fish assemblage was substantial and widespread. A total of eight fish species that were present in 2007 were missing in 2012 and 16 additional species exhibited marked declines in distribution and abundance. Fifteen of these 24 species are classified as highly intolerant to pollution.
- Seven species increased in distribution and abundance and four of these are classified as moderately to highly tolerant of pollution.
- DELT (deformities, erosions, lesions, and tumors) anomalies on fish were generally <0.5-1.0% in 2012, which is consistent with the 2007 results and in marked contrast with the elevated anomalies observed in 1998. As such the biological response in 2012 is different than in 1998 when excessive nutrients were an associated stressor.
- Excursions of the EWH dissolved oxygen (D.O.) criteria were more frequent in 2012 compared to 2007. These occurred between RM 18.6 and RM 6.0, coinciding with the discharge from the Polk Run WWTP. In addition to the EWH D.O. exceedances, diel swings of >6 mg/l and maximum values of 10-15 mg/l were more frequent in 2012 compared to 2007.
- The primary nutrient total phosphorus was not elevated in 2012 compared to 2007 and values were in fact lower, possibly the result of phosphorus removal treatment at some WWTPs in the upper and middle Little Miami mainstem in the late 1990s and early 2000s.
- Total nitrate (NO<sub>3</sub>-N), total Kjeldahl nitrogen (TKN), and total suspended solids (TSS) were somewhat elevated in 2012 compared to 2007 with more frequent exceedances of regional reference concentrations.
- Habitat quality as measured by the QHEI revealed substantially lower scores at some of the comparable sites between 2012 and 2007, although most scores were >70-75 indicating very good to exceptional quality habitat.

*Table 4. Aquatic life use attainment status at Little Miami River sites in 2012. Index of Biotic Integrity (IBI), Modified Index of Well-Being (MIwb), and Invertebrate Community Index (ICI) scores are based on performance of the biological assemblages. The Qualitative Habitat Evaluation Index (QHEI) measures physical habitat quality and potential to support an aquatic life use. Causes and sources of impairment are listed at sites that did not fully attain their use – sites in full attainment are blue shaded; PHWH are green shaded. Sampling locations are grouped by the mainstem (LRAU) and HUC 12 subwatershed level WAU (watershed assessment unit). Changes in attainment status from previous reported assessments are denoted as improving (↑), no change (⊙), or declining (↓) compared to the most recent prior assessment.*

Site ID	River Mile	Drainage Area (mi. <sup>2</sup> )	IBI	MIwb	ICI or Narrative	QHEI/HHEI	Attainment Status	Causes	Sources
<b>Large River Assessment Unit 05090202 9002 – Little Miami River, O’Bannon Creek to Ohio River</b>									
<b>11-001 – Little Miami River (EWH Aquatic Life Use – Existing)</b>									
LM01	27.80/ 27.80	1070.00	42*	10.57	44 <sup>ns</sup>	73.0	Partial↓	D.O., organic enrichment	unknown
LM02	23.70/ 24.10	1150.00	43*	10.02	48	76.5	Partial↓	D.O., organic enrichment	unknown
LM03	22.10/ 22.80	1150.00	36*	9.14 <sup>ns</sup>	50	69.5	Partial↓	D.O., organic enrichment	unknown
LM04	21.70/ 21.80	1150.00	41*	10.09	32 <sup>na</sup> (Mixing Zone)	75.0	Partial	D.O., organic enrichment	unknown
LM05	21.25/ 21.40	1160.00	42*	9.67	42 <sup>ns</sup>	74.0	Partial↓	D.O., organic enrichment	unknown
LM06	20.60/ 20.60	1160.00	44 <sup>ns</sup>	9.99	42 <sup>ns</sup>	82.0	FULL⊙		
LM07	18.40/ 18.60	1190.00	39*	9.92	44 <sup>ns</sup>	72.0	Partial	D.O., organic enrichment	unknown
LM08	17.60/ 17.60	1190.00	42*	10.20	42 <sup>ns</sup>	84.0	Partial↓	D.O., organic enrichment	unknown
LM09	12.90/ 13.10	1200.00	44 <sup>ns</sup>	9.53	50	81.5	FULL⊙		
LM10	11.80/ 12.40	1210.00	42*	9.93	44 <sup>ns</sup>	75.5	Partial	D.O., organic enrichment	unknown
LM11	11.20/ 10.90	1710.00	44 <sup>ns</sup>	9.89	46	88.5	FULL		
LM12	8.30/ 8.00	1710.00	41*	9.62	-	73.5	Partial↓	D.O., organic enrichment	unknown
LM13	7.10/ 7.30	1720.00	40*	9.95	48	75.0	Partial	D.O., organic enrichment	unknown
LM14	6.00/ 5.30	1720.00	36*	7.86*	42 <sup>ns</sup>	54.5	Partial	D.O., organic enrichment	unknown
LM15	4.30/ 4.10	1730.00	35*	8.48*	44 <sup>ns</sup>	59.5	Partial	D.O., organic enrichment	unknown
<b>11-001 – Little Miami River (WVH Aquatic Life Use – Existing)</b>									
LM16	3.00/ 3.40	1750.00	39 <sup>ns</sup>	9.76	42	72.3	FULL⊙		
LM17	1.40/ 1.40	1760.00	36*	8.18	18 <sup>na</sup>	64.0	Partial	Impoundment	Ohio River backwater

Table 4. Aquatic life use attainment status at Little Miami River sites in 2012. Index of Biotic Integrity (IBI), Modified Index of Well-Being (MIwb), and Invertebrate Community Index (ICI) scores are based on performance of the biological assemblages. The Qualitative Habitat Evaluation Index (QHEI) measures physical habitat quality and potential to support an aquatic life use. Causes and sources of impairment are listed at sites that did not fully attain their use – sites in full attainment are blue shaded; PHWH are green shaded. Sampling locations are grouped by the mainstem (LRAU) and HUC 12 subwatershed level WAU (watershed assessment unit). Changes in attainment status from previous reported assessments are denoted as improving (↑), no change (⊙), or declining (↓) compared to the most recent prior assessment.

Site ID	River Mile	Drainage Area (mi. <sup>2</sup> )	IBI	MIwb	ICI or Narrative	QHEI/HHEI	Attainment Status	Causes	Sources
11-047 - Unnamed Trib to Little Miami River at RM 0.83 <b>(Aquatic Life Use Undesignated / WWH Recommended)</b>									
LM103	0.20/ 0.10	1.70	52	NA	Poor*	65.0	NON	Habitat, TP	Urban runoff, natural
11-066 - Unnamed Trib to Little Miami River at RM 13.1 <b>(Aquatic Life Use Undesignated / WWH Recommended)</b>									
LM21	1.50/ 1.50	3.00	36 <sup>ns</sup>	NA	Good	63.0/	FULL		
11-067 - Unnamed Trib to Little Miami River at RM 7.75 <b>(Aquatic Life Use Undesignated / PHW3A Recommended)</b>									
LM20	1.20/ 1.20	0.50	24 <sup>na</sup>	NA	NA	/72.0	PHW3A		
11-068 - Unnamed Trib (RM 2.7) to Unnamed Trib to Little Miami River at RM <b>(Aquatic Life Use Undesignated / PHW3A Recommended)</b>									
LM19	0.50/ 0.50	0.6	12 <sup>na</sup>	NA	NA	/83.0	PHW3A		
11-082 - Unnamed Trib to Little Miami River at 24.06 <b>(Aquatic Life Use Undesignated / PHW2 (Intermittent) Recommended)</b>									
LM23	0.20/ 0.20	1.60	Dry	NA	NA	Na/50	PHW2		
11-083 - Unnamed Trib to Little Miami River at RM 21.82 <b>(Aquatic Life Use Undesignated / PHW2 (Intermittent) Recommended)</b>									
LM24	0.10/ 0.10	0.80	Dry	NA	NA	Na/50	PHW2		
11-085 - Unnamed Trib to Little Miami River at 13.8 <b>(Aquatic Life Use Undesignated / PHW2 (Intermittent) Recommended)</b>									
LM22	0.30/ 0.30	1.20	Dry	NA	NA	Na/58	PHW2		
WAU 09-02 - O'Bannon Creek									
11-010 - O'Bannon Creek <b>(WWH Aquatic Life Use – Existing)</b>									
LM37	1.80/ 1.90	54.30	52	9.22	34	71.3	FULL⊙		
LM38	0.10/ 0.10	59.00	44	7.34*	Good	71.0	Partial↓	Nutrients	WWTP, urban runoff
WAU 13-05 - East Fork Little Miami River									
11-100 - East Fork Little Miami River <b>(EWH Aquatic Life Use – Existing)</b>									
LM25	19.50/ 19.50	344.00	42*	9.10ns	44 <sup>ns</sup>	85.5	Partial↑	Flow	Ustr. Impoundment

Table 4. Aquatic life use attainment status at Little Miami River sites in 2012. Index of Biotic Integrity (IBI), Modified Index of Well-Being (MIwb), and Invertebrate Community Index (ICI) scores are based on performance of the biological assemblages. The Qualitative Habitat Evaluation Index (QHEI) measures physical habitat quality and potential to support an aquatic life use. Causes and sources of impairment are listed at sites that did not fully attain their use – sites in full attainment are blue shaded; PHWH are green shaded. Sampling locations are grouped by the mainstem (LRAU) and HUC 12 subwatershed level WAU (watershed assessment unit). Changes in attainment status from previous reported assessments are denoted as improving (↑), no change (⊙), or declining (↓) compared to the most recent prior assessment.

Site ID	River Mile	Drainage Area (mi. <sup>2</sup> )	IBI	MIwb	ICI or Narrative	QHEI/HHEI	Attainment Status	Causes	Sources
<b>11-100 - East Fork Little Miami River (EWH Aquatic Life Use – Existing)</b>									
LM26	15.00/ 14.90	352.00	47 <sup>ns</sup>	8.86*	48	89.3	Partial⊙	Flow	Ustr. Impoundment
LM27	13.70/ 13.90	364.00	43*	8.64*	48	80.5	Partial↓	Flow	Ustr. Impoundment
LM28	13.20/ 12.90	372.00	45 <sup>ns</sup>	9.81	52	80.5	FULL		
LM29	11.00/ 11.00	376.00	41*	8.57*	44 <sup>ns</sup>	81.0	Partial⊙	D.O., Org. enrich., nutrients	WWTP, Urban runoff
LM30	9.10/ 9.00	380.00	43*	9.16 <sup>ns</sup>	46	93.0	Partial↑	D.O., Org. enrich., nutrients	WWTP, Urban runoff
LM31	5.60/ 5.60	485.00	39*	8.75*	46	71.5	Partial⊙	Habitat, siltation, D.O., Org. enrich., nutrients	WWTP, Urban runoff
LM32	4.30/ 4.30	491.00	41*	8.60*	50	74.0	Partial↓	Habitat, siltation, nutrients, Org. enrich.,	WWTP, Urban runoff
LM34	2.00/ 2.10	494.00	35*	9.53 <sup>ns</sup>	42 <sup>ns</sup>	69.8	Partial⊙	Habitat, siltation, Org. enrich., nutrients	WWTP, Urban runoff
LM35	1.00/ 1.60	498.00	38*	9.41 <sup>ns</sup>	48	81.5	Partial	Nutrients, Org. enrich.,	WWTP, Urban runoff
LM36	0.70/ 0.70	499.00	35*	9.06*	50	63.0	Partial⊙	Habitat, siltation, D.O., Org. enrich.,	WWTP, Urban runoff
<b>WAU 14-01 - Sycamore Creek</b>									
<b>11-007 - Sycamore Creek (WWH Aquatic Life Use – Existing)</b>									
LM47	3.50/ 3.60	3.50	26*	NA	Fair*	60.8	NON	Chlorides, nutrients, metals	Urban runoff
LM48	2.40/ 2.40	4.80	26*	NA	MG <sup>ns</sup>	73.0	NON	Chlorides,metals	Urban runoff
LM49	1.60/ 1.50	6.60	24*	NA	Good	72.5	NON	Chlorides,metals	Urban runoff

Table 4. Aquatic life use attainment status at Little Miami River sites in 2012. Index of Biotic Integrity (IBI), Modified Index of Well-Being (MIwb), and Invertebrate Community Index (ICI) scores are based on performance of the biological assemblages. The Qualitative Habitat Evaluation Index (QHEI) measures physical habitat quality and potential to support an aquatic life use. Causes and sources of impairment are listed at sites that did not fully attain their use – sites in full attainment are blue shaded; PHWH are green shaded. Sampling locations are grouped by the mainstem (LRAU) and HUC 12 subwatershed level WAU (watershed assessment unit). Changes in attainment status from previous reported assessments are denoted as improving (↑), no change (⊙), or declining (↓) compared to the most recent prior assessment.

Site ID	River Mile	Drainage Area (mi. <sup>2</sup> )	IBI	MIwb	ICI or Narrative	QHEI/HHEI	Attainment Status	Causes	Sources
<b>11-007 - Sycamore Creek (WWH Aquatic Life Use – Existing)</b>									
LM50	0.70/ 1.10	12.70	28*	NA	MG <sup>ns</sup>	65.3	Partial⊙	Chlorides,metals	Urban runoff
LM51	0.50/ 0.30	22.70	42	7.30*	Good	59.3	Partial↓	Habitat	Sewer line, Urban runoff
LM52	0.20/ 0.20	23.30	51	7.85*	MG <sup>ns</sup>	68.0	Partial↓	Ammonia, Chlorides,	WWTP, Urban runoff
<b>11-008 - North Branch Sycamore Creek at RM 0.64 (WWH Aquatic Life Use – Existing)</b>									
LM57	5.00/ 5.20	2.90	34*	NA	Good	77.3	Partial	Chlorides	Urban runoff
LM58	4.30/ 3.70	4.40	36 <sup>ns</sup>	NA	Good	83.0	FULL		
LM59	2.10/ 2.00	7.30	36 <sup>ns</sup>	NA	Good	88.0	FULL		
LM60	0.50/ 0.40	9.80	34*	NA	34	72.8	Partial	Loss of connectance, chloride	Culvert, urban runoff
LM61	0.10/ 0.05	9.90	54	NA	36	86.0	FULL		
<b>11-049 - Trib To Sycamore Cr. (RM 1.12) (Aquatic Life Use Undesignated/WWH Recommended)</b>									
LM55	1.00/ 1.00	5.30	24*	NA	Good	73.5	Partial	Chlorides, flow, unknown	Urban runoff, natural
LM56	0.30/ 0.20	5.60	32*	NA	Good	74.0	Partial	Chlorides, flow	Urban runoff, natural
LM53	0.10/ 0.10	5.70	24*	NA	Good	66.0	Partial	Chlorides, flow	Urban runoff, natural
<b>11-072 - Unnamed Trib to N Branch Sycamore Creek at RM 5.3 (Aquatic Life Use Undesignated / PHW2 (Intermittent) Recommended)</b>									
LM65	1.10/ 1.10	0.20	Dry	NA	NA	Na/44	PHW2		
<b>11-073 - Unnamed Trib to N Branch Sycamore Creek at RM 5.4 (Aquatic Life Use Undesignated/WWH Recommended)</b>									
LM63	0.60/ 0.60	1.10	32*	NA	Poor	71.0/ 74.0	NON	Chlorides	Urban runoff
<b>11-074 - Unnamed Trib to N Br Sycamore Cr at RM 0.75 (Aquatic Life Use Undesignated/PHW3A Recommended)</b>									
LM64	1.40/ 1.40	0.50	16 <sup>na</sup>	NA	NA	76.0/ 63.0	PHW3A		



Table 4. Aquatic life use attainment status at Little Miami River sites in 2012. Index of Biotic Integrity (IBI), Modified Index of Well-Being (MIwb), and Invertebrate Community Index (ICI) scores are based on performance of the biological assemblages. The Qualitative Habitat Evaluation Index (QHEI) measures physical habitat quality and potential to support an aquatic life use. Causes and sources of impairment are listed at sites that did not fully attain their use – sites in full attainment are blue shaded; PHWH are green shaded. Sampling locations are grouped by the mainstem (LRAU) and HUC 12 subwatershed level WAU (watershed assessment unit). Changes in attainment status from previous reported assessments are denoted as improving (↑), no change (⊙), or declining (↓) compared to the most recent prior assessment.

Site ID	River Mile	Drainage Area (mi. <sup>2</sup> )	IBI	MIwb	ICI or Narrative	QHEI/HHEI	Attainment Status	Causes	Sources
11-084 - Trib to North Branch Sycamore Creek at RM 2.33 <b>(Aquatic Life Use Undesignated/PHW3A Recommended)</b>									
LM62	1.80/ 1.65	0.60	20 <sup>na</sup>	NA	NA	76.0/ 67.0	PHW3A		
11-086 - Unnamed Trib (1.82) to Trib to Sycamore Creek (1.12) <b>(Aquatic Life Use Undesignated/PHW2 (Intermittent) Recommended)</b>									
LM54	0.40/ 0.40	1.60	Dry	NA	NA	NA/ 58.0	PHW2		
WAU 14-02 - Polk Run-Little Miami									
11-009 - Polk Run <b>(WWH Aquatic Life Use – Existing)</b>									
LM46	3.20/ 3.20	2.60	28*	NA	MG <sup>ns</sup>	82.0	Partial	Chlorides, flow	Urban runoff
LM39	3.00/ 2.90	2.70	32*	NA	Good	69.5	Partial	Chlorides, flow	Urban runoff
LM40	0.30/ 0.30	10.00	52	NA	Good	68.0	FULL		
11-069 - Unnamed Trib to Polk Run at RM 1.79 <b>(Aquatic Life Use Undesignated/WWH Recommended)</b>									
LM41	2.50/ 2.60	1.30	36 <sup>ns</sup>	NA	MG <sup>ns</sup>	71.5	FULL		
LM44	0.40/ 0.40	2.40	30*	NA	Good	78.0	Partial	Chlorides, flow	Urban runoff
11-070 - Unnamed Trib to Polk Run at RM 0.70 <b>(Aquatic Life Use Undesignated/WWH Recommended)</b>									
LM42	2.00/ 1.90	0.00	30*	NA	Fair	76.5	NON	Chlorides, flow	Urban runoff
LM43	0.70/ 0.80	2.50	28*	NA	MG <sup>ns</sup>	75.0	Partial	Chlorides, flow	Urban runoff
11-071 - Unnamed Trib (RM 1.77) to Unnamed Trib to Polk Run <b>(Aquatic Life Use Undesignated/WWH Recommended)</b>									
LM45	0.20/ 0.20	1.10	30*	NA	Good	73.0	Partial	Chlorides, flow	Urban runoff
WAU 14-04 - Duck Creek									
11-004 - Duck Creek <b>(LRW Aquatic Life Use – Existing) [Confluence to RM 2.4]</b>									
LM71	6.00/ 6.00	2.20	12*	NA	VP*	20.0	NON	Organic enrichment, metals	CSOs, urban runoff
LM78	5.20/ 5.20	3.50	12*	NA	VP*	18.5	NON	Organic enrich., metals	CSOs, urban runoff

Table 4. Aquatic life use attainment status at Little Miami River sites in 2012. Index of Biotic Integrity (IBI), Modified Index of Well-Being (MIwb), and Invertebrate Community Index (ICI) scores are based on performance of the biological assemblages. The Qualitative Habitat Evaluation Index (QHEI) measures physical habitat quality and potential to support an aquatic life use. Causes and sources of impairment are listed at sites that did not fully attain their use – sites in full attainment are blue shaded; PHWH are green shaded. Sampling locations are grouped by the mainstem (LRAU) and HUC 12 subwatershed level WAU (watershed assessment unit). Changes in attainment status from previous reported assessments are denoted as improving (↑), no change (⊙), or declining (↓) compared to the most recent prior assessment.

Site ID	River Mile	Drainage Area (mi. <sup>2</sup> )	IBI	MIwb	ICI or Narrative	QHEI/HHEI	Attainment Status	Causes	Sources
<b>11-004 - Duck Creek (LRW Aquatic Life Use – Existing) [Confluence to RM 2.4]</b>									
LM72	4.60/ 4.60	5.10	<u>26</u> *	NA	Poor	40.0	FULL		
LM73	4.40/ 4.40	5.80	<u>12</u> *	NA	Poor	18.5	NON	Organic enrichment, metals	CSOs, urban runoff
LM75	3.30/ 3.30	11.40	<u>12</u> *	NA	Fair	22.5	NON⊙	Organic enrichment, metals	CSOs, urban runoff
LM76	2.90/ 2.90	11.80	32	NA	Fair	33.5	FULL		
<b>11-004 - Duck Creek (WWH Aquatic Life Use – Existing) [RM 2.4 to Mouth]</b>									
LM77	1.80/ 1.80	14.30	30*	NA	Fair	48.0	NON	Organic enrichment, metals, Flow	CSOs, urban runoff, habitat degradation
LM91	1.00/--	14.50	Dry	NA	Dry	NA	NON⊙	Flow, organic enrichment, metals,	CSOs, urban runoff, habitat degradation
LM79	0.90/ 0.90	14.60	Dry	NA	<u>VP</u> *	NA	NON	Flow, organic enrichment, metals,	CSOs, urban runoff, habitat degradation
LM81	0.10/ 0.10	15.3	Dry	NA	Dry	NA	NON	Flow, organic enrichment, metals,	CSOs, urban runoff, habitat degradation
<b>11-051 - East Fork Duck Creek (Deerfield Creek) (LRW Aquatic Life Use – Existing)/PHWI Recommended</b>									
LM81	2.30/2.30	0.5	Dry	NA	Dry	Na/ 17	NON	Chlorides, flow	Urban runoff
<b>11-051 - East Fork Duck Creek (Deerfield Creek) (LRW Aquatic Life Use – Existing)/WWH Recommended</b>									
LM85	1.90/ 1.50	1.30	<u>18</u> *	NA	<u>VP</u> *	59.0	NON	Chlorides, flow	Urban runoff
LM84	0.50/ 0.60	2.40	<u>24</u> *	NA	<u>VP</u> *	39.0	NON	Chlorides, flow	Urban runoff
LM74	0.15/ 0.15	3.40	28*	NA	<u>VP</u> *	51.0	NON	Chlorides, flow	Urban runoff

Table 4. Aquatic life use attainment status at Little Miami River sites in 2012. Index of Biotic Integrity (IBI), Modified Index of Well-Being (MIwb), and Invertebrate Community Index (ICI) scores are based on performance of the biological assemblages. The Qualitative Habitat Evaluation Index (QHEI) measures physical habitat quality and potential to support an aquatic life use. Causes and sources of impairment are listed at sites that did not fully attain their use – sites in full attainment are blue shaded; PHWH are green shaded. Sampling locations are grouped by the mainstem (LRAU) and HUC 12 subwatershed level WAU (watershed assessment unit). Changes in attainment status from previous reported assessments are denoted as improving (↑), no change (⊙), or declining (↓) compared to the most recent prior assessment.

Site ID	River Mile	Drainage Area (mi. <sup>2</sup> )	IBI	MIwb	ICI or Narrative	QHEI/HHEI	Attainment Status	Causes	Sources
11-075 - Unnamed Trib to Duck Creek at RM 4.8 <b>(Aquatic Life Use Undesignated/PHW2 (Intermittent))</b>									
LM83	0.80/ 0.80	1.20	Dry	NA	Dry	Na/41	PHW2		
11-075 - Unnamed Trib to Duck Creek at RM 4.8 <b>(Aquatic Life Use Undesignated/LRW Recommended)</b>									
LM80	0.20/ 0.20	1.40	<u>12</u> *	NA	<u>VP</u> *	36.5	NON	Org. enrichment chlorides, flow	CSOs, urban runoff
11-076 - Little Duck Creek <b>(Aquatic Life Use Undesignated/WWH Recommended)</b>									
LM86	2.70/ 2.70	0.40	34*	NA	Good	46.5	Partial	Chlorides, Flow	Urban runoff
LM87	2.60/ 2.60	0.50	34*	NA	Good	48.8	Partial	Chlorides, Flow	Urban runoff
LM90	2.40/ 2.30	0.50	34*	NA	MG <sup>ns</sup>	59.0	Partial	Chlorides, Flow	Urban runoff
LM88	1.80/ 1.80	0.80	Dry	NA	Dry	NA	NON	Chlorides, Flow	Urban runoff
LM89	1.40/ 1.40	1.10	30*	NA	<u>Poor</u> *	37.0	NON	Flow	Urban runoff
LM91	1.00/ 0.00	0.70	Dry	NA	Dry	NA	NON	Organic enrichment, flow	CSOs, Urban runoff
LM92	0.20/ 0.00	1.70	Dry	NA	Dry	NA	NON	D.O., Organic enrichment, Flow	CSOs, Urban runoff
11-077 - Unnamed Trib to Little Duck Creek at RM 4.42 <b>(Aquatic Life Use Undesignated/PHW3A Recommended)</b>									
LM82	0.10/ 0.10	1.40	Dry	NA	NA	NA/ 76.0	PWH3A		
WAU 14-05 - Dry Run-Little Miami									
11-005 - Dry Run <b>(WWH Aquatic Life Use – Existing)/PHW3A Recommended)</b>									
LM70	5.60/ 5.70	0.80	20*	NA	NA	NA/ 62.5	PHW3A		
11-005 - Dry Run <b>(WWH Aquatic Life Use – Existing)</b>									
LM66	4.10/ 4.10	3.20	30*	NA	Good	56.5	Partial	Unknown, flow	Natural, Urban runoff

Table 4. Aquatic life use attainment status at Little Miami River sites in 2012. Index of Biotic Integrity (IBI), Modified Index of Well-Being (MIwb), and Invertebrate Community Index (ICI) scores are based on performance of the biological assemblages. The Qualitative Habitat Evaluation Index (QHEI) measures physical habitat quality and potential to support an aquatic life use. Causes and sources of impairment are listed at sites that did not fully attain their use – sites in full attainment are blue shaded; PHWH are green shaded. Sampling locations are grouped by the mainstem (LRAU) and HUC 12 subwatershed level WAU (watershed assessment unit). Changes in attainment status from previous reported assessments are denoted as improving (↑), no change (⊙), or declining (↓) compared to the most recent prior assessment.

Site ID	River Mile	Drainage Area (mi. <sup>2</sup> )	IBI	MIwb	ICI or Narrative	QHEI/HHEI	Attainment Status	Causes	Sources
<b>11-005 - Dry Run (WWH Aquatic Life Use – Existing)</b>									
LM67	2.50/ 2.50	4.70	44	NA	Good	76.5	FULL		
LM68	0.60/ 0.00	5.40	Dry	NA	Dry	NA	NA	Flow	Natural, Urban Runoff
<b>11-064 - Trib to Dry Run (4.20) (Aquatic Life Use Undesignated/PHW3A Recommended)</b>									
LM69	0.10/ 0.10	0.90	Dry	NA	Good <sup>na</sup>	NA/ 70.0	PHW3A		
<b>WAU 14-06 - Clough Creek-Little Miami</b>									
<b>11-002 - Clough Creek (WWH Aquatic Life Use – Existing)</b>									
LM99	4.60/ 4.60	0.90	<u>20</u> *	NA	Fair*	56.3	NON	Chlorides, flow	Urban runoff
LM95	3.20/ 3.20	2.00	30*	NA	Fair*	56.5	NON	Chlorides, flow, nutrients	Urban runoff
LM96	3.00/ 3.10	2.00	36 <sup>na</sup>	NA	Good	57.8	FULL		
LM97	1.20/ 1.20	7.50	<u>26</u> *	NA	34	65.0	NON	Chlorides, flow	Urban runoff
LM98	0.60/ 0.40	8.00	<u>26</u> *	NA	Good	57.5	NON↓	D.O., chlorides, flow	CSOs, Urban runoff
<b>11-003 - McCullough Run (WWH Aquatic Life Use – Existing)</b>									
LM94	1.30/ 1.30	1.70	34*	NA	VP*	37.0	NON	Chlorides, habitat, flow	CSOs, Urban runoff
<b>11-078 - Unnamed Trib to McCullough Run at RM 1.08 (Aquatic Life Use Undesignated/WWH Recommended)</b>									
LM93	1.50/ 1.40	0.90	46	NA	MG <sup>ns</sup>	56.8	FULL		
<b>11-079 – Trib to Unnamed Trib to Clough Creek at RM 3.06 (Aquatic Life Use Undesignated/WWH Recommended)</b>									
LM101	1.05/ 1.05	0.70	<u>24</u> *	NA	Fair	58.8	NON	Chlorides, TP, flow	Urban runoff
<b>11-080 - UT at RM 0.66 to UT to Clough Creek at RM 3.06 (Aquatic Life Use Undesignated/PHW2 Recommended)</b>									
LM102	0.20/ 0.20	1.10	Dry	NA	Poor*	NA/72	PHW2		

Table 4. Aquatic life use attainment status at Little Miami River sites in 2012. Index of Biotic Integrity (IBI), Modified Index of Well-Being (MIwb), and Invertebrate Community Index (ICI) scores are based on performance of the biological assemblages. The Qualitative Habitat Evaluation Index (QHEI) measures physical habitat quality and potential to support an aquatic life use. Causes and sources of impairment are listed at sites that did not fully attain their use – sites in full attainment are blue shaded; PHWH are green shaded. Sampling locations are grouped by the mainstem (LRAU) and HUC 12 subwatershed level WAU (watershed assessment unit). Changes in attainment status from previous reported assessments are denoted as improving (↑), no change (⊙), or declining (↓) compared to the most recent prior assessment.

Site ID	River Mile	Drainage Area (mi. <sup>2</sup> )	IBI	MIwb	ICI or Narrative	QHEI/HHEI	Attainment Status	Causes	Sources
11-081 - UT at RM 0.95 to UT to Clough Creek at RM 3.06 <b>(Aquatic Life Use Undesignated/WWH Recommended)</b>									
LM100	0.20/0.10	0.90	24*	NA	Poor*	60.8	NON	Chlorides, TP, flow	CSOs, Urban runoff
WAU 12-08 - Ninemile Creek-Ohio River									
10-001 - Five Mile Creek <b>(WWH Aquatic Life Use – Existing)</b>									
LM107	2.40/2.50	2.60	28*	NA	MG <sup>ns</sup>	67.5	Partial	Loss of connectance, chlorides, flow	Culvert, Urban runoff, natural
LM108	0.10/0.20	4.80	52	NA	MG <sup>ns</sup>	70.8	FULL		
10-002 - Eight Mile Creek <b>(WWH Aquatic Life Use – Existing)/PHW3A Recommended in HW</b>									
LM105	2.10/2.00	0.80	12 <sup>na</sup>	NA	NA	71.0/90.0	PHW3A		
10-130 - Trib to Eight Mile Creek at RM 1.01 <b>(Aquatic Life Use Undesignated/PHW3A Recommended)</b>									
LM106	0.10/0.10	1.10	18 <sup>na</sup>	NA	NA	71.5/68.0	PHW3A		
10-537 - Four Mile Creek <b>(WWH Aquatic Life Use – Existing)</b>									
LM104	0.80/0.90	1.10	18*	NA	Fair*	66.0/77.0	NON	Ammonia, flow	Unsewered, urban runoff, natural
<b>WAU 08-03 - Turtle Creek</b>									
11-021 – Turtle Creek <b>(WWH Aquatic Life Use – Existing)</b>									
RF08	6.10/6.10	22.50	40	NA	MG <sup>ns</sup>	69.0	FULL		
11-022 – Dry Run <b>(WWH Aquatic Life Use – Existing)</b>									
RF09	1.80/1.80	4.90	38 <sup>ns</sup>	NA	Fair*	63.0	Partial	Nutrients, flow	Ag. runoff, natural
11-030 – Newman Run <b>(EWH Aquatic Life Use – Existing)</b>									
RF10	0.30/0.00	9.50	Dry	NA	Dry	NA	NA	Flow, D.O.	Natural, ag and urban runoff
<sup>na</sup> - not applicable; Narratives: E – exceptional; G – good; MG – marginally good; F – Fair; P – poor; VP – very poor. <sup>ns</sup> – nonsignificant departure from applicable biocriterion; * - significant exceedance of applicable biocriterion.									

See OAC 3745-1-07, Table 7-13 for the applicable numeric biocriteria.

- An initial attempt to diagnose the 2012 impairment of the EWH use included examining the number of D.O. sensitive fish species. These species declined in 2012 compared to 2007 and were only slightly higher than the numbers observed in 1998 when the EWH use was substantially impaired.
- The decline in the Little Miami River biological assemblages were revealed in the ADV/AAV analyses with ADV values for the IBI being the same as in 1998. AAVs for the MIwb and ICI were also similar to 1998, both reflecting an overall reduction compared to 2007 even though both indices mostly attained the EWH biocriteria in 2012.
- Causes of impairment were assigned to marginal D.O. and organic enrichment, but specific sources were not assigned.
- A more detailed diagnosis of the decline observed in 2012 is not possible at this time, but will be pursued as part of the ongoing regional analysis of stressors in support of the Integrated Prioritization System (IPS). However, as a result of the potential uncertainties and implications resulting from the finding of non-attainment in 2012, follow-up biological sampling was conducted in 2013 and within an extended study area (upstream) in an effort to verify the 2012 findings and to gain indications of any obvious problems that were overlooked by the more truncated 2012 study design.

#### *East Fork Little Miami River*

- Of the 11 East Fork Little Miami R. mainstem sites that were evaluated under the Warmwater Habitat suite of uses and biocriteria, 1 was in full attainment of the EWH use and the remaining 10 in partial attainment.
- There was a marked difference in the fish IBI scores between the two sampling passes. The August 13-15 sampling pass reflected attainment of the EWH IBI biocriterion at 5 sites mostly in the upper one-half of the sampled segment. The October 1-4 sampling pass had consistently lower IBI scores, none attaining the EWH biocriterion and several below to WWH biocriterion.
- The segment sampled in 2012 extends from the Harsha reservoir outlet to the mouth at the Little Miami River. Dewatering of the Harsha Reservoir stilling basin was conducted August 20-22 between the two fish sampling passes.
- Water temperatures measured in the Little Miami River during July 17-19 showed a significant spike in temperatures downstream from the East Fork confluence such that Ohio average and maximum temperature criteria were exceeded. Maximum temperatures approached and exceeded the avoidance temperatures of intolerant fish species. While no corresponding temperature data was collected in the East Fork during this time, the results indicate the East Fork as a source of elevated temperatures, at least periodically. Successive temperature recordings during August 28-30 showed an increase downstream from the East Fork, but no exceedances of temperature criteria.
- Water sample data did not reveal any particular problems or exceedances of water quality criteria or regional reference thresholds.
- ADV values for the IBI were the highest in 2012 of all prior survey years dating back to 1982, reflecting a steady decline in the quality of the fish assemblage. The MIwb and ICI

showed reductions in AAV values both reflecting a reduction compared to 1998 even though both indices largely attained their EWH biocriteria in 2012.

- Causes of impairment included flow fluctuations, D.O., organic enrichment, habitat modifications, and siltation. Sources included the Harsha Reservoir, urban runoff, and WWTPs.

#### *Sycamore Creek and Tributaries*

- Of the 19 sites located in the Sycamore Creek subbasin 15 were evaluated under the Warmwater Habitat suite of uses and biocriteria. Of these 3 were in full attainment of WWH, 8 in partial attainment of WWH, and 4 in non-attainment of WWH. Four sites were evaluated under the PHWH classification scheme.
- The partial and non-attainment of WWH was due mostly to the poor quality fish assemblages especially in the smaller drainage areas where past habitat modifications due to sewer line construction were prevalent and chlorides, metals, and nutrients were elevated from urban runoff. However, a few sites exhibited good to exceptional quality biological assemblages. Two of the PHWH sites were classified as IIIA which is the highest quality among the PHWH subclasses.
- Water quality in Sycamore Creek was typical of watersheds with a high degree of urbanization with excursions of exceedances of heavy metals (copper and lead), elevated conductivity, elevated chlorides, and elevated total dissolved solids (TDS). Flows were also limiting in some of the smaller tributaries and were likely exacerbated by the dry weather conditions throughout the 2012 index period.
- Causes of impairment included chlorides, metals, habitat, and low flows. Sources included habitat modifications, urban runoff, and natural conditions.

#### *Polk Run and Tributaries*

- Of the 8 sites located in the Polk Run subbasin all were evaluated under the Warmwater Habitat suite of uses and biocriteria. Of these 2 were in full attainment of WWH, 5 in partial attainment of WWH, and 1 in non-attainment of WWH. No sites were evaluated under the PHWH classification scheme.
- The partial and non-attainment of WWH was due mostly to fair quality fish and marginal macroinvertebrate assemblages especially in the smaller drainage areas where low flows and chlorides were elevated from urban runoff. The site at the mouth of Polk Run exhibited good to exceptional quality biological assemblages.
- Water quality in Polk Run was typical of watersheds with a high degree of urbanization with elevated conductivity, elevated chlorides, and elevated total dissolved solids (TDS). Flows were also limiting in some of the smaller tributaries and were likely exacerbated by the dry weather conditions throughout the 2012 index period.
- Causes of impairment included chlorides and low flow and the source was urban runoff.

#### *Duck Creek*

- Of the 24 sites located in the Duck Creek subbasin 21 were evaluated under the Warmwater Habitat suite of uses and biocriteria. Of these 2 were in full attainment of

the LRW use, 3 in partial attainment of the recommended WWH use, and the remaining 19 in non-attainment of the existing LRW and recommended WWH uses.

- Biological assemblages typically reflected very poor to poor quality in the segments of Duck Creek and tributaries that are highly modified and impacted by CSOs. However, some sites did reflect fair to good quality and indication of lesser impacts primarily in an absence of CSOs.
- Water quality in Duck Creek was typical of watersheds with a high degree of urbanization and CSOs with excursions of D.O., exceedances of heavy metals (copper and lead), elevated temperatures, elevated TKN, elevated conductivity, elevated chlorides, and elevated TDS.
- While Duck Creek is the most impacted and modified tributary subbasin in the study area with concreted channels being widespread, the increased spatial resolution of the 2012 survey found that some tributaries had good water quality and suitable habitat.
- Causes of impairment included organic enrichment, metals, flow modifications, chlorides, and unknown. Sources included habitat modifications, CSOs, and urban runoff.

#### *Dry Run and Tributary*

- Of the 5 sites located in the Dry Run subbasin 3 were evaluated under the Warmwater Habitat suite of uses and biocriteria. Of these 1 was in full attainment of WWH, 1 in partial attainment of WWH, and 1 in non-attainment of WWH. One (1) site was evaluated under the PHWH classification scheme.
- The partial attainment of WWH was due the fair quality fish assemblage at site LM66 which was attributed to low flows due to natural conditions. The site at the mouth of Dry Run was not sampled due to ephemeral conditions. The tributary to Dry Run was assessed as a PHWH and was classified as a PHW IIIA.
- Water quality in Dry Run was good where water samples were collected with no exceedances of any criteria or thresholds.
- Causes of impairment included low flows due to mostly natural conditions.

#### *Clough Creek and Tributaries*

- Of the 10 sites located in the Clough Creek subbasin 9 were evaluated under the Warmwater Habitat suite of uses and biocriteria. Of these 2 were in full attainment of WWH and 7 in non-attainment of WWH. A single site was evaluated under the Primary Headwater Habitat (PHWH) classification scheme.
- The non-attainment of WWH was due mostly to poor to fair quality fish and very poor to fair quality macroinvertebrate assemblages and due to a wide variety of impacts.
- Water quality in Clough Creek was impacted by urbanization and by CSOs at 3 sites. Elevated conductivity, chlorides, and TDS were characteristic of the sites not influenced by CSOs. Flows were also limiting in some of the smaller tributaries and were likely exacerbated by the dry weather conditions throughout the 2012 index period.
- Causes of impairment included chlorides, low flows, nutrients and the sources included urban runoff and CSOs.



### *Ohio River Tributaries (Fourmile, Fivemile, and Eightmile Creeks)*

- Of the 5 Ohio R. direct tributary site 3 were evaluated under the Warmwater Habitat suite of uses and biocriteria. Of these 1 was in full attainment of WWH, 1 in partial attainment of WWH, and 1 in non-attainment of WWH. Two sites were evaluated under the PHWH classification scheme.
- The partial and non-attainment of WWH was due to poor to fair quality fish and fair to marginal macroinvertebrate assemblages. The site at the mouth of Fivemile Creek had an exceptional quality fish assemblage. The two PHWH sites were classified as PWH IIIA.
- Water quality in Fivemile Creek was typical of watersheds with a high degree of urbanization with elevated conductivity, chlorides, and TDS. Flows were also limiting at the upstream most site and were likely exacerbated by the dry weather conditions throughout the 2012 index period. Fourmile Creek was impacted by raw sewage apparently from an unsewered area.
- Causes of impairment included chlorides, ammonia, and low flows and the source was urban runoff and an unsewered area.

### *Direct Little Miami River Tributaries*

- Seven direct and unnamed tributaries to the Little Miami River were included in the 2012 study area.
- Of the 7 unnamed tributary sites two (2) were evaluated under the Warmwater Habitat suite of uses and biocriteria. Of these 1 was in full attainment of WWH and 1 in non-attainment of WWH. Five (5) sites were evaluated under the Primary Headwater Habitat (PHWH) classification scheme.
- The non-attainment of WWH at the RM 0.83 tributary (LM103) was due to the poor quality macroinvertebrate assemblage which contrasted markedly with an exceptional fish assemblage. Water quality at this site was characterized by excessive nutrients from urban runoff.
- Of the five PHWH sites, 2 were classified PHW IIIA and 3 PWH II.

### *Regional Reference Sites*

- Three reference sites were located outside the 2012 Little Miami River study area and included Turtle Creek, Dry Run, and Newman Run. Full attainment of WWH was the result in Turtle Creek. The results in Dry Run reflected partial attainment due to a fair macroinvertebrate assemblage. Newman Run was not sampled due to ephemeral conditions precipitated by the dry weather conditions during the 2012 index period.

### ***Recreational Use Status in the Lower Little Miami River Study Area***

Impairment of recreation uses in the lower Little Miami River watershed was not uncommon throughout all of the subwatersheds that were sampled. The Primary or Secondary Contact 30-day (geometric mean) criteria (Table 5) were exceeded at 53 of 89 sites (Table 6; Figure 4A). The Primary Contact criterion was also exceeded at one of the three reference sites (RF09, Dry Run). This included 49 exceedances of the Primary Contact criteria and 5 of the Secondary Contact criteria.

The geometric mean is the key criterion used to determine recreational use attainment and the single sample maximum is typically only used to determine use attainment at public bathing beaches, but not for streams and rivers. High minimum values were highlighted as an indicator of the chronic nature of the recreational use impairment as minimum values greater than the geometric mean criterion underscored the high frequency of exceedances. Identifying the sources of fecal bacteria in urban areas can be a complex process, but in the lower Little Miami River they are likely related to CSOs, sanitary sewer overflows (SSOs), WWTPs, urban runoff, and deteriorating sewage collection systems in the older urban areas.

*Recreational Use Recommendations*

The Ohio WQS have multiple recreational use categories as described above. The “default” recreational use for Ohio streams is PCR-B unless there is direct evidence that another subcategory is more appropriate (e.g., PCR-A, PCR-B, or SCR). PCR-C is assigned to streams where primary contact recreation activities are limited to wading or are infrequent due to shallow depths. PCR-A is assigned to water bodies where full body immersion is plausible hence depths and volume need to be sufficient to support activities like swimming. SCR is restricted to those streams that are:

- rarely used for water based recreation such as, but not limited to, wading;
- are situated in remote, sparsely populated areas;
- have restricted access points; and,
- have insufficient depth to provide full body immersion, thereby greatly limiting the potential for water based recreation activities.

In the assessment of recreational uses in the Lower Little Miami River watershed MBI designated streams considered as a PHW aquatic life use as SCR because their small size precludes any full body immersion (generally less than 1 mi<sup>2</sup> with pool depths <40 cm). Most streams <5 mi<sup>2</sup> with a WWH aquatic life use were assigned to PCR-C use since wading was plausible, but because of their shallow depths full body immersion would be unlikely. Once the uses were addressed, attainment status was based on the geometric mean of *E. coli* results compared to the criteria for each aquatic life use. The recreational use criteria for *E. coli* vary with the specific use tier related to recreation intensity and importance (Table 5).

*LRAU – 90-02 – Little Miami River*

The Little Miami River mainstem is designated as PCA because of the high recreational value of this river. Fourteen of the sixteen sites on the Little Miami exceeded the PCA criteria for *E. coli* and all exceeded the single value maximum target as well (Table 6). Potential sources of *E. coli* include agricultural sources as well as urban runoff, CSOs, SSOs, and WWTP effluents. Exceedances of the PCB or PCC *E. coli* criteria were not evident in two tributaries.

*Table 5. E. coli criteria for Ohio streams and rivers (OAC 3745-1).*

Recreation Use	E. coli Counts	
	Seasonal Geometric Mean	Single Sample Maximum
PCR-A	126	298
PCR-B	161	523
PCR-C	206	940
SCR	1,030	1,030

Table 6. Bacteriological (*E. coli*) sampling results in the Little Miami River study area during 2011. All values are expressed as the most probable number (MPN) per 100 ml of water. Geometric mean values were used to determine attainment of the applicable recreation uses; values above the geometric mean water quality criterion are highlighted in yellow (PC – Primary Contact; SC – Secondary Contact).

River Mile	Site ID	Location	Recr. Use	N	E. coli Geom. Mean	E. Coli Max.	Recreation Status
LRAU 90-02 – Little Miami River mainstem							
<b>11-001: Little Miami River</b>							
27.80	LM01	Dst. Old 3C highway	PCA	17	143.1	687.0	NON
23.70	LM02	Dst. E. Loveland Ave.	PCA	17	113.4	866.0	FULL
22.10	LM03	Ust. Polk WWTP	PCA	17	184.2	1203.0	NON
21.70	LM04	Mixing Zone	PCA	17	95.6	1046.0	NA
21.25	LM05	Dst. Bridge St.	PCA	17	139.2	816.0	NON
19.30	LM06	At Lake Isabella Canoe Launch	PCA	17	148.3	1986.0	NON
18.10	LM07	Adj. Glendale Milford Rd.	PCA	12	163.3	2420.0	NON
17.10	LM08	Adj. Kelly Nature Preserve	PCA	16	210.8	1986.0	NON
12.90	LM09	Milford Canoe Launch; US 50 bridge	PCA	11	97.4	816.0	FULL
11.50	LM10	Ust. Confluence with E. Fork LMR	PCA	15	153.8	866.0	NON
10.90	LM11	Dst. Confluence with E. Fork LMR	PCA	15	172.3	2420.0	NON
8.00	LM12	Bass Island Canoe Launch	PCA	17	207.4	2420.0	NON
6.80	LM13	Ust. Train Tracks below boulder field	PCA	13	194.8	2420.0	NON
5.30	LM14	Ust. Duck Cr./ Adj. Mariemont Gardens Park	PCA	17	232.7	2420.0	NON
4.00	LM15	At. Otto Armlender Park Canoe Launch	PCA	17	234.9	2420.0	NON
3.00	LM16	Dst. Beechmont Ave. / Clough Creek	PCA	17	225.4	2420.0	NON
1.40	LM17	Start Ust. Kellogg Ave.	PCA	17	256.5	2420.0	NON
<b>11-047 - Unnamed Trib to Little Miami River at RM 0.83</b>							
0.10	LM103	Kellogg Rd.	PCB	1	99.0	99.0	FULL
<b>11-066 - Unnamed Trib to Little Miami River at RM 13.1</b>							
1.50	LM21	At Red Bird Hollow	PCC	4	187.0	613.0	FULL
WAU 09-02 – O'Bannon Creek							
<b>11-010 - O'Bannon Creek</b>							
1.80	LM37	at O'Bannon Creek Rd.	PCB	8	185.4	1733.0	NON
0.10	LM38	at Loveland Park	PCB	9	492.4	2420.0	NON
WAU – 14-02 – Polk Run							
<b>11-009 - Polk Run</b>							
3.20	LM46	Ust. 7 Gables Rd.	PCC	2	276.6	461.0	NON
2.90	LM39	Montgomery Rd.	PCC	3	277.3	649.0	NON
0.30	LM40	at East Kemper Rd.	PCB	4	254.6	2420.0	NON
WAU – 14-01 – Sycamore Creek							
<b>11-007 - Sycamore Creek</b>							
3.50	LM47	Dst. Camargo Rd.	PCC	4	920.4	1986.0	NON
2.40	LM48	Ust. Kugler Mills Rd off Loveland Maderia Rd.	PCC	4	666.2	1203.0	NON
1.50	LM49	Loveland Maderia Rd @ pull-off by trib	PCB	8	131.6	2420.0	FULL
0.70	LM50	Ust. Spooky Hollow Rd.	PCB	8	180.2	2420.0	FULL
0.30	LM51	Ust. Sycamore Creek WWTP outfall	PCB	8	83.8	326.0	FULL
0.10	LM52	Dst. Sycamore Creek WWTP outfall	PCB	8	93.7	727.0	FULL
<b>11-008 - North Branch Sycamore Creek</b>							
5.00	LM57	Behind 10478 Adventure Lane	PCC	2	144.5	147.0	FULL
3.70	LM58	behind Bethesda North Hospital	PCC	2	275.6	291.0	NON
2.00	LM59	Hopewell Rd.	PCB	2	119.2	148.0	FULL
0.40	LM60	SR 126	PCB	2	122.5	147.0	FULL
0.05	LM61	Loveland Maderia Rd. (confluence)	PCB	2	335.3	365.0	NON
<b>11-084 - Trib to North Branch Sycamore Creek at RM 2.33</b>							
1.65	LM62	Cincinnati Christian Academy	SC	1	1986.0	1986.0	NON

Table 6. Bacteriological (*E. coli*) sampling results in the Little Miami River study area during 2011. All values are expressed as the most probable number (MPN) per 100 ml of water. Geometric mean values were used to determine attainment of the applicable recreation uses; values above the geometric mean water quality criterion are highlighted in yellow (PC – Primary Contact; SC – Secondary Contact).

River Mile	Site ID	Location	Recr. Use	N	E. coli Geom. Mean	E. Coli Max.	Recreation Status
<b>11-072 - Unnamed Trib to N Branch Sycamore Creek at RM 5.3</b>							
0.75	LM65	RM 0.75	SC	1	194.0	194.0	FULL
<b>11-086 - UT (1.82) UT to Sycamore Cr. (1.12)</b>							
0.40	LM54	RM 0.4	SC	1	30.0	30.0	FULL
<b>11-073 - Unnamed Trib to N Branch Sycamore Creek at RM 5.4</b>							
0.60	LM63	Adj. Old Pfeiffer Rd. @ Ursuline H.S.	PCC	1	1120.0	1120.0	NON
<b>11-074 - Unnamed Trib to N Br Sycamore Cr at RM 0.75</b>							
1.40	LM64	Ust. Bike path	SC	1	435.0	435.0	FULL
<b>11-049 - Trib To Sycamore Cr. (RM 1.12)</b>							
0.90	LM55	Blome Rd.	PCB	1	125.0	125.0	FULL
0.20	LM56	Ust. Loveland Maderia Rd. Ust. OEPA site	PCB	2	133.7	365.0	FULL
0.10	LM53	at confluence of Sycamore Creek	PCB	1	93.0	93.0	FULL
WAU 13-05 – East Fork Little Miami River							
<b>11-100 - East Fork Little Miami River</b>							
19.50	LM25	Dst. E. Fork Lake @ end of Elclick Rd.	PCA	17	22.6	1553.0	FULL
14.90	LM26	Ust. Hwy 222	PCA	9	141.2	411.0	NON
13.70	LM27	RM 13.7	PCA	16	151.2	700.0	NON
12.90	LM28	Clermont Co. Parks Building Adj. Hwy 222	PCA	9	389.9	1300.0	NON
11.00	LM29	Ust. Pull off @ Patchell Rd & Highway 222	PCA	9	233.4	1300.0	NON
9.00	LM30	Stonelick Rd.	PCA	17	150.9	2420.0	NON
5.60	LM31	Ust. SR 50; Ust. Clermont Co. WWTP	PCA	16	230.0	4000.0	NON
4.30	LM32	Dst. Clermont Co. WWTP	PCA	8	212.8	2420.0	NON
2.00	LM34	at SR 131 extension	PCA	8	180.3	980.0	NON
1.00	LM35	Dst. Milford WWTP	PCA	8	202.6	866.0	NON
0.70	LM36	Dst. S. Milford Rd.	PCA	16	321.7	5500.0	NON
WAU 14-05 – Dry Run							
<b>11-005 - Dry Run</b>							
5.50	LM70	Clough Pike	SC	1	2420.0	2420.0	NON
4.10	LM66	Ust. 8 Mile Rd.	PCC	2	315.6	579.0	NON
2.50	LM67	Dst. Batavia Pike	PCC	2	428.1	980.0	NON
11-064 - Trib to Dry Run (4.20)							
0.10	LM69	RM 0.1	SC	1	326.0	326.0	FULL
WAU 14-04 Duck Creek							
<b>11-004 - Duck Creek</b>							
6.00	LM71	at Duck Creek Rd. (upstream)	SC	2	2192.3	2420.0	NON
5.20	LM78	adj. 562 and I-71	SC	8	1700.0	2420.0	NON
4.60	LM72	Dst. Duck Creek Rd.	SC	2	572.0	1203.0	FULL
4.40	LM73	Ust. Madison Rd.	SC	8	667.3	2420.0	FULL
3.30	LM75	at Erie Ave.	SC	8	336.7	2420.0	FULL
2.30	LM76	RM 2.3	PCB	8	585.8	2420.0	NON
1.80	LM77	at Power St.	PCB	8	535.4	2420.0	NON
0.90	LM79	RM 0.9	PCB	7	756.5	2420.0	NON
<b>11-051 - East Fork Duck Creek</b>							
0.15	LM74	Dst. CSO 71 and 66	PCC	7	1058.0	2420.0	NON
1.50	LM85	Stewart Ave. across from BMW dealer	PCC	1	186.0	186.0	FULL
0.50	LM84	adj. Red Bank Rd. behind School	PCC	1	411.0	411.0	NON
<b>11-075 - Unnamed Trib to Duck Creek at RM 4.8</b>							
0.10	LM80	Kennedy Ave.	SC	2	1849.8	2420.0	NON

Table 6. Bacteriological (*E. coli*) sampling results in the Little Miami River study area during 2011. All values are expressed as the most probable number (MPN) per 100 ml of water. Geometric mean values were used to determine attainment of the applicable recreation uses; values above the geometric mean water quality criterion are highlighted in yellow (PC – Primary Contact; SC – Secondary Contact).

River Mile	Site ID	Location	Recr. Use	N	E. coli Geom. Mean	E. Coli Max.	Recreation Status
<b>11-076 - Little Duck Creek</b>							
2.70	LM86	at Madison Rd.	SC	1	276.0	276.0	FULL
2.60	LM87	at Plainville Rd.	SC	1	228.0	228.0	FULL
2.30	LM90	Settle Rd.	SC	2	393.7	866.0	FULL
1.70	LM88	RM 1.7	SC	2	417.1	1553.0	FULL
1.30	LM89	Watterson Rd.	PCC	2	449.9	816.0	NON
0.20	LM92	RM 0.2	PCC	2	624.2	2420.0	NON
11-077 - Unnamed Trib to Little Duck Creek at RM 4.42							
0.10	LM82	RM 0.1	SC	2	685.2	2420.0	FULL
WAU 14-06 – Clough Run							
<b>11-002 - Clough Creek</b>							
4.60	LM99	at Wolfangle Rd.	SC	1	161.0	161.0	FULL
3.20	LM95	upstream bridge at Clough Pike	PCC	2	106.2	179.0	FULL
1.20	LM97	behind maple farm off Clough Pike	PCB	3	435.9	1300.0	NON
0.40	LM98	Elstun Rd and Beechmont Ave.	PCB	3	337.9	2420.0	NON
<b>11-003 - McCullough Run</b>							
1.30	LM94	at US32 across from sod farm and soccer field	PCC	1	60.0	60.0	FULL
1.40	LM93	Ragland Rd.	PCC	1	2420.0	2420.0	NON
<b>11-079 - Trib to Unnamed Trib to Clough Creek at RM3.06</b>							
1.00	LM101	Paddison Rd.	PCC	1	214.0	214.0	FULL
<b>11-080 - UT at RM 0.66 to UT to Clough Creek at RM 3.06</b>							
0.20	LM102	RM 0.2	SC	1	185.0	185.0	FULL
<b>11-081 - UT at RM 0.95 to UT to Clough Creek at RM 3.06</b>							
0.10	LM100	Robinway Dr.	PCC	1	179.0	179.0	FULL
WAU – 12-08 Five Mile Creek							
<b>10-001 - Five Mile Creek</b>							
2.40	LM107	adj. 5 Mile Rd.	PCC	1	45.0	45.0	FULL
0.10	LM108	Dst. SR 52 on Ramp	PCC	4	527.4	2420.0	NON
<b>10-002 - Eight Mile Creek</b>							
2.00	LM105	Greenleaf Dr.	SC	4	256.0	435.0	FULL
0.70	LM104	Ust. 4 mile Rd.	PCC	4	453.1	1733.0	NON
WAU 08-03 – Reference Sites (Turtle Creek)							
<b>11-021 - Turtle Creek</b>							
6.10	RF08	at Glosser Rd.	PCB	7	129.4	291.0	FULL
<b>11-022 - Dry Run</b>							
1.80	RF09	at Township Rd. 82	PCB	7	304.2	1046.0	NON
<b>11-030 - Newman Run</b>							
0.30	RF10	RM 0.3	PCB	6	119.5	2420.0	FULL

Ohio Recreation Use *E. coli* criteria: PCA - 126 cfu/100 ml; PCB - 161 cfu/100 ml; PCC - 206 cfu/100 ml; SC - 1030 cfu/100 ml.

Plots of individual sample results of *E. coli* counts in the lower Little Miami mainstem illustrates the high frequency of exceedances of the PCA criterion of 126 MPN (Most Probable Number) in 2011 (MSDGC monthly stations) and from the 2012 survey (Figures 4A and 4B). This appeared to be more than what was observed by Ohio EPA in 2007, although the frequency of sampling was lower in 2007. Nevertheless, the observed increases in counts of *E. coli* provides another line of evidence that organic enrichment may have been elevated in recent years compared to 2007.

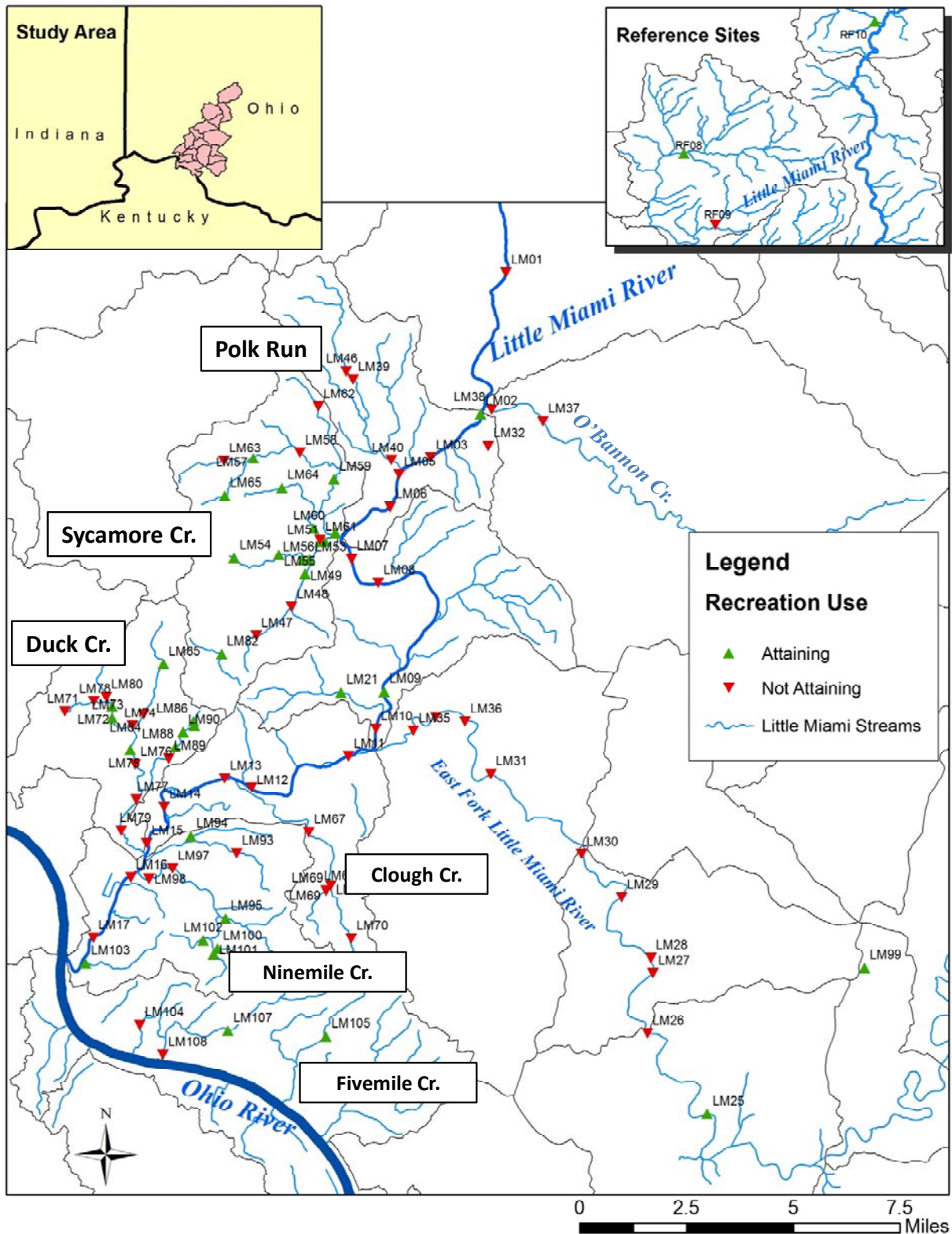


Figure 4A. Recreational use attainment status for the Primary Contact suite of use tiers in the Little Miami River study area during 2012 expressed as attainment (blue) or non-attainment (red) based on *E. coli* values. Site codes correspond to those described in Table 5 of the study area description.

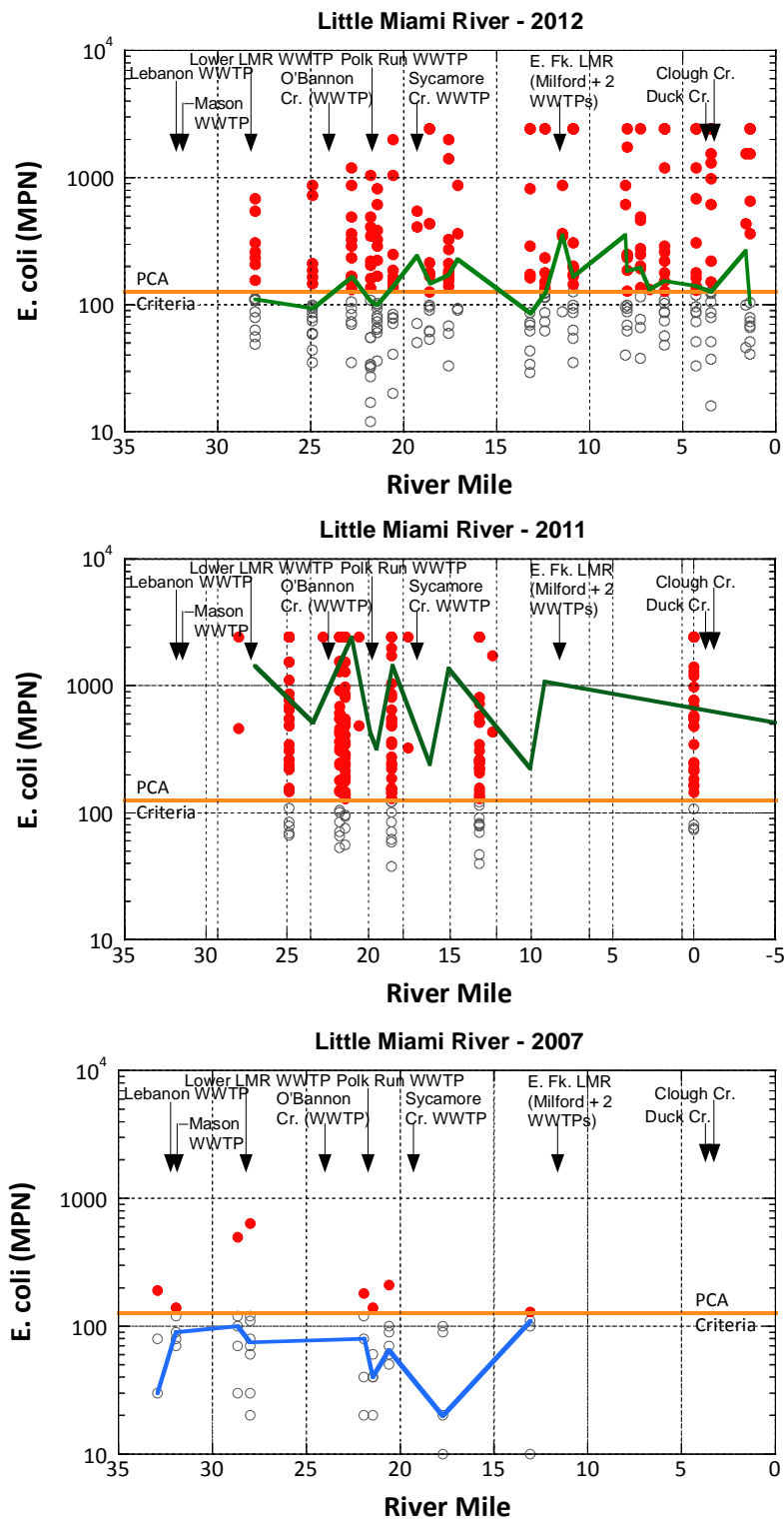


Figure 4B. *E. coli* (MPN) vs. river mile for the lower 35 miles of the Little Miami river during 2012 (top), 2011 (middle) and 2007 (bottom). Lines on each graph represent median values at each site.



#### *WAU 09-02 – O'Bannon Creek*

The *E. coli* criteria (PCB) was exceeded at both of the sites on O'Bannon Creek, but counts were higher downstream of the O'Bannon WWTP. The upstream site is about 29% forested with the other land use including agricultural and scattered residential uses. The *E. coli* geometric mean criteria were not exceeded at similar sites sampled by Ohio EPA during 2007 and 2008 although the maximum value was elevated at the downstream site during 2008.

#### *WAU 14-01 – Polk Run*

All three sites sampled in Polk Run exceeded the PCC or PCB criteria for *E. coli*. Most of the Polk Run watershed is heavily residential and subject substantial urban runoff. Ohio EPA did not sample Polk Run for *E. coli* during the 2007 survey.

#### *WAU 14-01 – Sycamore Creek*

Sycamore Creek exceeded the PCB or PCC criteria for *E. coli* at two of the six stations in the headwater area and at two of the five stations on the North Fork of Sycamore Creek. Of the six smaller tributaries with limited sampling (Table 4), only two of the sites (LM62, SC and LM63, PCC) exceeded their PCC or SC criteria. The lower two sites did not exceed the PCB criteria during 2012 or during the Ohio EPA survey during 2007. Bacteria were highest in the headwater reaches with chemical signatures of urban runoff (e.g., conductivity, chlorides).

#### *WAU 13-05 – East Fork Little Miami River*

The East Fork Little Miami is classified as PCA because of the high ecological quality and recreation use of the river. It had exceedances of the *E. coli* criteria at all but the site immediately downstream of the reservoir as well as exceedances of the single maximum target at all sites. Only the downstream-most site was sampled during 2007 and 2008 and it attaining the PCA use, but exceeded the criteria in 2008.

#### *WAU 14-05 – Dry Run*

All of the sites on Dry Run had elevated *E. coli* levels, but sites only had 1-2 samples. A small tributary that confluences at RM 4.2 did not exceed its SC criterion. Dry Run was not sampled by Ohio EPA in 2007/8.

#### *WAU 14-04 – Duck Creek*

The Duck Creek watershed is most heavily urban impacted watershed in the lower Little Miami River and has a substantial number of SSO and CSO discharge points. In addition, large portions of Duck Creek are concrete-lined channels. Upstream of RM 2.9 Duck Creek has been classified as a Limited Resource Water use and is also a Secondary Contact recreation use. The upper most sites on Duck Creek (LM71 and LM 78) have an impaired SC recreation use and all of the lower PCB sites are impaired as well. All sites in the stream had counts higher than the single maximum target of 1030 MPN. The tributaries to Duck Creek showed some scattered exceedances, but sites had only 1-2 samples (Table 6). Identifying the sources of fecal bacteria in urban areas can be a complex process, but in the Duck Creek watershed are likely related to CSOs, SSOs, urban runoff, and aged and deteriorating sewage collection systems in the older urban areas.



*WAU 14-06 – Clough Creek*

On the basis of 1-3 samples per station, the streams in the Clough Creek watershed had exceedances of the *E. coli* criteria at 3 of 9 samples and exceed the single maximum target at 3 of 9 sites. The highest values are associated with the presence of CSOs.

*WAU 12-08 – Nine Mile Creek*

Two of the four sites in the Nine Mile Creek watershed (LM108, Five Mile Creek at RM 0.2 and LM104, Four Mile Creek at RM 0.9) had exceedances of the *E. coli* criteria (PCC). The upstream site on Five Mile Creek (LM107) and the site on Eight Mile Creek (LM105, SC) did not exceed the criteria.

*WAU 08-03 – Turtle Creek/Reference Sites.*

The *E. coli* criterion (PCB) was exceeded at one of the three reference sites (Dry Run, RF09). Although these are reference sites (i.e., least impacted) and Dry Run has about 37% forest, it also has agricultural land uses that likely contribute to the elevated *E. coli* levels.

## Biological and Water Quality Study of the Little Miami River and Tributaries 2012

### INTRODUCTION

The Midwest Biodiversity Institute (MBI) is under contract to the Metropolitan Sewer District of Greater Cincinnati (MSDGC) to develop and execute a watershed-based monitoring and biological assessment plan for the MSDGC service area within Hamilton County, Ohio. The plan was developed in 2010-11 and it is based on a four-year rotating watershed sequence (MBI 2011). The spatial and temporal sampling design and the biological, chemical, and physical indicators and parameters that are to be collected at each sampling site are described in the plan. Biological sampling methods for fish and macroinvertebrate assemblages and habitat assessment are supported by chemical and physical measures and ancillary information about pollution sources and other stressors for the overall biological assessment. The plan is intended to guide the development of detailed study plans for annual field work and subsequent data analysis and reporting during 2011-14 and to assist MSDGC in its capital planning. The spatial sampling design employs a combination of a geometric (stratified-random) and targeted-intensive pollution surveys. This design helps to fulfill multiple management purposes and goals in addition to the determination of the status of the biological assemblages and their relationship to chemical, physical, and biological stressors. As such, the principles of adequate monitoring (ITFM 1995; Yoder 1998) were employed in anticipation that the resulting biological assessments will be used to support the development of cost-effective watershed management responses to existing and emerging issues.

#### Principles of Watershed Bioassessment

Monitoring should address the relevant scale(s) at which management is applied. This can range from site-specific investigations of individual streams up to watershed scale assessments of condition. Such monitoring programs are constructed so that the baseline data and information supports assessments at the *same scale at which management is applied*. The specific designs, indicators, and assessment tools used must be tailored to the regional peculiarities in climate, soils, land use, geology, ecological resources (flora and fauna), socioeconomic influences, and geography. Thus the indicators that are used need to be sufficiently developed and calibrated to reflect these influences and at the scale at which management is being planned and conducted. In general monitoring objectives usually include:

- defining status and trends;
- identification of existing and emerging problems;
- support of water quality management policy and program development;
- evaluating management program effectiveness;
- responding to emergencies, and
- continued development and improvement of the understanding of the basic chemical, physical, and biological processes that affect environmental quality.

Effective monitoring and, by extension, water quality management programs, require a supporting infrastructure in terms of personnel and logistical support to carry out monitoring from a “cost-of-doing-business” standpoint. This means that monitoring resources must be tailored to meet the management needs of the statewide, regional, or local scale through space and time. It is under these principles that the watershed bioassessment program initiated by MSDGC is being conducted.

MSDGC intends to use the results and analysis of the monitoring and bioassessment program to accomplish the following:

1. Determine the status of service area rivers and streams in quantitative terms, i.e., not only if the waterbody is impaired but the spatial extent and severity of the impairment;
2. Evaluate the appropriateness of existing aquatic life and recreational use designations and make recommendations for any changes to those designations;
3. Determine the proximate stressors that contribute to the observed impairments for the purpose of targeting management actions to those stressors; and,
4. Develop an IPS following the example of that developed for the DuPage River Salt Creek Working Group (DRSCWG; Miltner et al. 2010). This will produce a quantitative model that yields restoration actions focused on parameters and stressors that will most likely result in improved aquatic resource condition and water quality. It is intended to assist MSDGC in making decisions about how to prioritize pollution abatement projects.

To meet objectives 1 and 2 above the assessments will need to be based on data generated by methods and implementation must be in conformance with the provisions of the Ohio Credible Data Law (ORC 6111.51). Under the regulations that govern the Credible Data program at Ohio EPA, all data and analyses must be collected and performed under the direction of Level 3 Qualified Data Collectors (OAC 3745-4). MSDGC intends to use the data to evaluate the attainability of aquatic life and recreational uses and determine the status of service area rivers and streams. As such, the sampling and analysis of the biological and physical condition conducted herein conforms to these provisions by the development and submittal of annual Level 3 Project Study Plans (PSP).

### **MSDGC Watershed Bioassessment Scope and Purposes**

The MSDGC project study area consists of eleven subwatersheds and the Ohio River mainstem within Hamilton County and parts of adjoining counties. These watersheds are impacted by a variety of stressors including municipal and industrial point source discharges of wastewater, habitat modifications in the form of modified stream channels, run-of-river low head dams, riparian encroachment, and channelization, and nonpoint source runoff from widely differing degrees of landscape modifications from rural to suburban to intensive urban development. The urban impact gradient is the strongest in Lower and Middle Mill Creek watersheds lessening somewhat across the Little Miami and Great Miami River subwatersheds. CSOs are the most numerous in the Mill Creek watershed and adjacent Little Miami River tributaries (i.e., Duck Creek) and some have subsumed historical streams.

## 2012 Little Miami River Watershed Assessment Scope and Purpose

The 2012 Little Miami River watersheds assessment included 4 of the 11 subwatersheds that are part of the overall MSDGC service area watershed monitoring plan (MBI 2011). This included the lower 25 miles of the mainstem of the Little Miami River, the East Fork of the Little Miami River below the Harsha Reservoir, and tributaries to the Little Miami River in Hamilton Co. and the fringes of adjoining counties. In addition to the baseline purposes of the MSDGC service area monitoring plan, specific assessment issues in Little Miami River watersheds included a high density of CSO outfalls in the Duck Creek watershed, major wastewater treatment plants on the Little Miami and East Fork mainstems, and developing suburban areas throughout the watershed study area. The issue of PHWH streams was also included in the survey design.

Cincinnati has the fifth highest volume of CSO in the U.S. (MSDGC 2011a) As a result, water quality has been significantly impacted in parts of the Little Miami River watersheds. MSDGC is working to remediate these issues under a consent decree with the U.S. Dept. of Justice and U.S. EPA to reduce CSO volume by 2 billion gallons by 2018. To resolve the public health and water quality issues, MSDGC has implemented Project Groundwork, a multi-year and multi-billion dollar initiative that includes hundreds of sewer improvements and stormwater control projects (MSDGC 2011a). The role of the watershed monitoring program is to support these initiatives by providing current information about baseline conditions, provide feedback about the effectiveness of new and past remediation efforts, and to assure that restoration resources are targeted to the actions and places that have the greatest return on investment. As such the 2012 Little Miami River watersheds assessment is the first step in that process.

The Little Miami River 2012 watershed monitoring is also being used to fulfill MSDGC National Pollution Discharge Elimination System (NPDES) permit reporting requirements. Part II, G. "Instream Monitoring" of the MSDGC CSO NPDES permit states the following:

### *"G. Instream Monitoring*

*As required by NPDES permit 1PX00022\*AD, the permittee conducted instream studies to evaluate the chemical specific and biological impacts associated with combined sewer overflows in its Little Miami River watersheds, Little Miami and Muddy Creek service areas. The permittee developed a plan of study for this monitoring in consultation with Ohio EPA. A series of letters between the permittee and Ohio EPA from February through June 1994 document the Agency's acceptance of the plan of study. The permittee conducted instream sampling in the Little Miami River watersheds service area during 1994, the Little Miami service area in 1995, and the Muddy Creek service area in 1996. As required by the NPDES permit, the permittee submitted reports in March of the following year for each service area. The permittee has continued the instream monitoring program for each service area on a three-year rotating schedule. It submitted the most recent report on the Little Miami service area in March 2008.*

*During the term of this permit, the permittee shall continue this monitoring program by conducting instream chemical specific and biological monitoring as follows:*

- 2008 Muddy Creek service area*
- 2009 Little Miami River watersheds service area*
- 2010 Little Miami service area*
- 2011 Muddy Creek service area*
- 2012 Little Miami River watersheds service area*
- 2013 Little Miami service area*

*The permittee shall conduct the monitoring in accordance with the plan of study as it has been updated and maintained during the ongoing instream studies. Not later than March 1 of each year, the permittee shall submit a report to Ohio EPA Southwest District Office on the previous year's stream study."*

The March 1 date has been changed to June 30 so that the annual watershed monitoring and assessment outlined in MBI (2011) can be used to support this reporting requirement. In addition MSDGC plans to include the subwatersheds in the Great Miami River basin in the rotational schedule for the chemical and biological sampling/reporting. Ohio EPA accepted both the June 30 reporting date and the inclusion of the GMR basin segments to the sequence of MSDGC watershed assessments.

## METHODS

### Watershed Assessment Design

The delineation of sampling locations for the MSDGC service area bioassessment followed a stepwise process (MBI 2011). This consisted of accounting for historical sampling locations of Ohio EPA and MSDGC and then filling gaps in that coverage to meet the goals of this project. Since the MSDGC service area is rich in current and historical Ohio EPA biological and chemical and MSDGC chemical sampling locations MBI delineated those sites first in the GIS coverage for the 11 subwatersheds. This was followed by a geometric draw that was then merged with the existing Ohio EPA and MSDGC sites. A total of eight drainage area “panels” were derived from the geometric draw starting at 164 mi<sup>2</sup> (the drainage area occupied by the Mill Creek subbasin) and subsequently halving each reduction to a drainage area of approximately 1.0 mi<sup>2</sup>. Overlapping historical and geometric sites were then merged resulting in the first allocation of potential sampling sites. The geometric draw yielded the most unique “new” sites mostly at drainage areas less than 5-10 mi<sup>2</sup>. The merged sites were then apportioned by each of the 11 subwatersheds in spreadsheets that include the site coordinates, the Ohio EPA basin and stream code, the Ohio EPA river mile, and our assignments of biological, chemical, and physical indicators and frequencies (MBI 2011). Additional targeted sites were added during a detailed study planning phase in order to position sites upstream and downstream from major discharges, sources of potential releases and contamination, and major physical modifications such as dams and to provide a “pollution profile” along the Little Miami River mainstem and the major tributaries. The result was a design that included chemical, physical, and biological sampling at a total of 108 sites in Little Miami River study area as a whole (Table 7). Each site was assigned a unique site code as depicted in Table 7 and Figure 5. An additional three reference sites outside of the Little Miami River study area were sampled as part of a network of 22 reference sites for the MSDGC service area.

#### ***Biological and Water Quality Surveys***

A biological and water quality survey, or “biosurvey”, is an interdisciplinary monitoring effort coordinated on a water body specific or watershed scale. Biological, chemical, and physical monitoring and assessment techniques are employed in biosurveys to meet three major objectives:

1. Determine the extent to which use designations assigned in the state WQS or equivalent policies or procedures are either attained or not attained;
2. Determine if use designations and/or goals set for or assigned to a given water body are appropriate and attainable; and,
3. Determine if any changes in key ambient biological, chemical, or physical indicators have taken place over time, particularly before and after the implementation of point source pollution controls or best management practices.

*Table 7. List of sampling locations and sample types for the 2012 Little Miami River watersheds bioassessment. The sample type is indicated (see footnotes) and habitat was recorded at all sites. Regional reference sites outside of Little Miami River study area that are sampled as part of the overall MSDGC four year monitoring plan are also included. Absolute location points with latitude-longitude values for macroinvertebrates, fish, chemical, and sediment sampling locations are listed in Appendix A-1 (Ust. – upstream; Dst. – downstream).*

Site ID	Chemical Sampling Type	Biological Sample Type	River Mile Range	Site ID Latitude Longitude	Drainage Area (mi <sup>2</sup> )	Location Description	USGS QUAD
<b>LRAU 90-02 – Little Miami River</b>							
<i>[11-001] - Little Miami River</i>							
LM01	C, D, N, H, O, B, S,	HD, QL, FB	27.80 - 28.00	39.316360, - 84.25214	1070	Dst. Old 3C highway	Mason
LM02	C, D, N, H, O, B, S,	HD, QL, FB	23.70 - 24.90	39.268770, - 84.26057	1150	Dst. E. Loveland Ave.	Mason
LM03	C, D, N, H, O, B, S,	HD, QL, FB	22.10 - 22.80	39.257500, - 84.27302	1150	Ust. Polk WWTP	Mason
LM04	C, D, N, H, O, B, S,	HD, QL, FB	21.70 - 21.80	39.250290, - 84.28937	1150	Mixing Zone	Mason
LM05	C, D, N, H, O, B, S,	HD, QL, FB	21.25 - 21.45	39.246390, - 84.29568	1160	Dst. Bridge St.	East Cincinnati
LM06	C, D, N, H, O, B, S,	HD, QL, FB	19.30 - 20.60	39.235340, - 84.29900	1160	At Lake Isabella Canoe Launch	East Cincinnati
LM07	C, D, N, H, O, B, S,	HD, QL, FB	18.10 - 18.60	39.217090, - 84.31494	1190	Adj. Glendale Milford Rd.	East Cincinnati
LM08	C, D, N, H, O, B, S,	HD, QL, FB	17.10 - 17.60	39.209420, - 84.30300	1190	Adj. Kelly Nature Preserve	East Cincinnati
LM09	C, D, N, H, O, B, S,	HD, QL, FB	12.90 - 13.20	39.172780, - 84.29861	1200	US 50 bridge	East Cincinnati
LM10	C, D, N, H, O, B, S,	HD, QL, FB	11.50 - 12.40	39.165260, - 84.29910	1210	Ust. Confluence with E. Fork LMR	East Cincinnati
LM11	C, D, N, H, O, B, S,	HD, QL, FB	10.90 - 11.20	39.152510, - 84.30492	1710	Dst. Confluence with E. Fork LMR	East Cincinnati
LM12	C, D, N, H, O, B, S,	QL, FB	8.00 - 8.30	39.136360, - 84.34762	1710	At Bass Island Canoe Launch	East Cincinnati
LM13	C, D, N, H, O, B, S,	HD, QL, FB	6.80 - 7.30	39.141360, - 84.36654	1720	Ust. RR bridge	East Cincinnati
LM14	C, D, N, H, O, B, S,	HD, QL, FB	5.30 - 6.00	39.133880, - 84.38654	1720	Ust. Duck Cr./ Adj. Mariemont Gardens Park	East Cincinnati
LM15	C, D, N, H, O, B, S,	HD, QL, FB	4.00 - 4.30	39.121450, - 84.39675	1730	At. Otto Armlender Park Canoe Launch	East Cincinnati

Table 7. Continued.

Site ID	Chemical Sampling Type	Biological Sample Type	River Mile Range	Site ID Latitude Longitude	Drainage Area (mi <sup>2</sup> )	Location Description	USGS QUAD
LM16	C, D, N, H, O, B, S,	HD, QL, FB	3.00 - 3.50	39.109430, -84.40178	1750	Beechmont Ave./ Clough Creek	East Cincinnati
LM17	C, D, N, H, O, B, DS	HD, QL, FB	1.40 - 1.60	39.085010, -84.42072	1760	at Kellogg Ave.	East Cincinnati
<i>[11-082] - Unnamed Trib to Little Miami River at 24.06</i>							
LM23	C, D, N, B	PHW	0.20	39.271500, -84.26401	1.6	adj. Kwanis Park	Mason
<i>[11-083] - Unnamed Trib to Little Miami River at RM 21.82</i>							
LM24		PHW	0.10	39.251550, -84.29015	0.8	Kemper Rd. at MSD	Mason
<i>[11-085] - Unnamed Trib to Little Miami River at 13.8</i>							
LM22	C, D, N, B	PHW	0.30	39.184500, -84.29354	1.2	Across road from Indian Hill Public Works; horse trail to Creek	East Cincinnati
<i>[11-066] - Unnamed Trib to Little Miami River at RM 13.1</i>							
LM21	C, D, N, H, O, B	QL, FHW	1.50	39.171670, -84.31737	3	At Red Bird Hollow	East Cincinnati
<i>[11-068] - Unnamed Trib (RM 2.7) to Unnamed Trib to Little Miami River (RM13.1)</i>							
LM19	C, D, N, B	QL, FHW	0.50	39.172180, -84.34544	0.6	Dst. Drake Rd.	East Cincinnati
<i>[11-067] - Unnamed Trib to Little Miami River at RM 7.75</i>							
LM20	C, D, N, O, B, S	QL, FHW, PHW	1.20	39.155060, -84.35799	0.5	At Walton Creek Rd.	East Cincinnati
<i>[11-047] - Unnamed Trib to Little Miami River at RM 0.83</i>							
LM103	C, D, N, O, B	QL, FHW, PHW	0.10 - 0.20	39.076260, -84.42218	1.7	dst. Kellogg Ave.	East Cincinnati
<b>WAU 09-02 – O'Bannon Creek</b>							
<i>[11-010] - O'Bannon Creek (LMR RM 24.06)</i>							
LM37	C, D, N, H, O, B, S,	FWD	1.80 - 1.90	39.264740, -84.23219	54.3	at O'Bannon Creek Rd.	Morrow
LM38	C, D, N, H, O, B, S,	QL, FWD	0.10	39.269550, -84.25632	59	at Loveland Park	Mason
<b>WAU 14-02 – Polk Run</b>							
<i>[11-009] - Polk Run (LMR RM 21.54)</i>							
LM46	C, D, N, H, O, B, S	QL, FHW, PHW	3.20 - 3.90	39.280510, -84.31976	2.6	Ust. 7 Gables Rd.	Mason
LM39	C, D, N, H, O, B, S,	QL, FHW	2.90 - 3.10	39.277940, -84.31708	2.8	Dst. Montgomery Rd.	Mason
LM40	C, D, N, H, O, B, DS	HD, QL, FHW	0.30	39.251140, -84.29913	10	at East Kemper Rd.	Mason
<i>[11-069] - Unnamed Trib to Polk Run at RM 1.79</i>							
LM41	C, D, N, B	QL, FHW, PHW	2.50 - 2.60	39.289160, -84.33758	1.3	8073 School Rd.	Mason
LM44	C, D, N, B	QL, FHW, PHW	0.40	39.267800, -84.31475	2.4	adj. Old Creek Trail; Dst. Terwilliger Trail Rd.	Mason



Table 7. Continued

Site ID	Chemical Sampling Type	Biological Sample Type	River Mile Range	Site ID Latitude Longitude	Drainage Area (mi <sup>2</sup> )	Location Description	USGS QUAD
<i>[11-070] - Unnamed Trib to Polk Run at RM 0.70</i>							
LM42	C, D, N, B	QL, FHW, PHW	1.90 - 2.00	39.277160, -84.29975	0.8	Behind Conveyer System Manufacture (W. Loveland & Glen Lake Rd.)	Mason
LM43	C, D, N, B	QL, FHW, PHW	0.70 - 0.80	39.262120, -84.29613	2.5	Heartwood Ct. at abandon Rd.	Mason
<i>[11-071] - Unnamed Trib (RM 1.77) to Unnamed Trib to Polk Run</i>							
LM45	C, D, N, B	QL, FHW, PHW	0.20	39.275880, -84.30340	1.1	behind CUSA plant off of Commercial Dr.	Mason
<b>WAU 14-01 – Sycamore Creek</b>							
<i>[11-007] - Sycamore Creek (LMR RM 19.2)</i>							
LM47	C, D, N, H, O, B, S,	QL, FHW	3.50 - 3.60	39.189410, -84.35679	3.4	Dst. Carmargo Rd.	East Cincinnati
LM48	C, D, N, H, O, B, S,	QL, FHW	2.40	39.200040, -84.34042	4.8	Ust. Kugler Mills Rd off Loveland Maderia Rd.	East Cincinnati
LM49	C, D, N, H, O, B, S,	HD, QL, FHW	1.50 - 1.60	39.211560, -84.33441	6.6	adj. Loveland Maderia Rd @ pull-off by trib	East Cincinnati
LM50	C, D, N, H, O, B, S,	FHW	0.70 - 1.10	39.216900, -84.33190	12.5	Ust. Spooky Hollow Rd.	East Cincinnati
LM51	C, D, N, H, O, B, S,	HD, QL, FWD	0.30 - 0.50	39.224890, -84.32351	22.8	Ust. Sycamore Creek WWTP outfall	East Cincinnati
LM52	C, D, N, H, O, B, S,	QL, FWD	0.10 - 0.20	39.225800, -84.32250	23.3	Dst. Sycamore Creek WWTP outfall	East Cincinnati
<i>[11-008] - North Branch Sycamore Creek</i>							
LM57	C, D, N, H, O, B, S	QL, FHW	5.00 - 5.20	39.249200, -84.36217	2.9	at Pfeiffer Rd.	Mason
LM58	C, D, N, H, O, B, S	QL, FHW	3.70 - 4.30	39.252640, -84.33923	4.4	behind Bethesda Hospital	Mason
LM59	C, D, N, H, O, B, S	QL, FHW	2.00 - 2.10	39.244340, -84.32349	7.3	Dst. Hopewell Rd.	East Cincinnati
LM60	C, D, N, H, O, B, S	HD, QL, FHW	0.40 - 0.50	39.228730, -84.33315	9.8	At SR 126	East Cincinnati
LM61	C, D, N, H, O, B, DS	HD, QL, FHW	0.05 - 0.10	39.222960, -84.32886	10	Ust. Loveland Maderia Rd.	East Cincinnati

Table 7. Continued

Site ID	Chemical Sampling Type	Biological Sample Type	River Mile Range	Site ID Latitude Longitude	Drainage Area (mi <sup>2</sup> )	Location Description	USGS QUAD
<i>[11-049] - Trib To Sycamore Cr. (RM 1.12)</i>							
LM55	C, D, N, O, B, S	QL, FHW	0.90 - 1.00	39.217700, -84.34671	5.3	Ust. Blome Rd.	East Cincinnati
LM56	C, D, N, H, O, B, S	QL, FHW	0.20 - 0.30	39.216300, -84.33630	5.6	Ust. Loveland Maderia Rd. Ust. OEPA site	East Cincinnati
LM53	C, D, N, B	HD, QL, FHW	0.10	39.216410, -84.33323	5.7	at confluence of Sycamore Creek	East Cincinnati
<i>[11-072] - Unnamed Trib to N Branch Sycamore Creek at RM 5.3</i>							
LM65	C, D, N, B	PHW	0.75 - 1.10	39.237130, -84.37125	0.2	Dst. Maple Dale Elementary School	East Cincinnati
<i>[11-073] - Unnamed Trib to N Branch Sycamore Creek at RM 5.4</i>							
LM63	C, D, N, B	QL, FHW, PHW	0.60	39.248880, -84.37217	1.1	Adj. Old Pfeiffer Rd. @ Ursuline H.S.	East Cincinnati
<i>[11-077] - Unnamed Trib to Sycamore Creek at RM 4.42</i>							
LM82	C, D, N, H, O, B	QL, PHW	0.10	39.183260, -84.37000	1.4	Behind baseball field.	East Cincinnati
<i>[11-074] - Unnamed Trib to N Br Sycamore Cr at RM 0.75</i>							
LM64	C, D, N, B	QL, FHW, PHW	1.40	39.240450, -84.34632	0.5	Ust. Bike path	East Cincinnati
<i>[11-084] - Trib to North Branch Sycamore Creek at RM 2.33</i>							
LM62	C, D, N, B	QL, FHW, PHW	1.65 - 1.80	39.269740, -84.33316	0.6	Cincinnati Christian Academy	Mason
<i>[11-086] - Unnamed Trib (1.82) to Trib to Sycamore Creek (1.12)</i>							
LM54	C, D, N, B	PHW	0.40	39.216060, -84.36608	1.6	behind house on Pepperell Rd.	East Cincinnati
<b>WAU 13-05 – East Fork Little Miami River</b>							
<i>[11-100] - East Fork Little Miami River (LMR RM 11.5)</i>							
LM25	C, D, N, H, O, B, DS	HD, QL, FWD	19.50	39.032860, -84.15144	344	Dst. E. Fork Lake @ end of Elklick Rd.	Batavia
LM26	C, D, N, H, O, B, DS	HD, QL, FWD	14.90 - 15.60	39.060050, -84.17868	352	Clermont Sportsman's Club	Batavia
LM27	C, D, N, H, O, B, DS	HD, QL, FWD	13.70 - 13.90	39.078100, -84.17963	364	Dst. Main St., Batavia	Batavia
LM28	C, D, N, H, O, B, DS	HD, QL, FWD	12.90 - 13.20	39.089300, -84.18619	372	Behind Clermont Co. Parks Building Adj. Hwy 222	Batavia

Table 7. Continued

Site ID	Chemical Sampling Type	Biological Sample Type	River Mile Range	Site ID Latitude Longitude	Drainage Area (mi <sup>2</sup> )	Location Description	USGS QUAD
LM29	C, D, N, H, O, B, DS	HD, QL, FWD	11.00 - 11.30	39.102080, -84.19579	376	Patchell Rd. and Hwy. 22	Batavia
LM30	C, D, N, H, O, B, DS	HD, QL, FWD	9.00 - 9.10	39.120390, -84.20888	380	Dst. Stonelick Rd.	Batavia
LM31	C, D, N, H, O, B, DS	HD, QL, FWD	5.60	39.145760, -84.25092	485	Ust. SR 50; Ust. Clermont Co. WWTP	East Cincinnati
LM32	C, D, N, H, O, B, S,	HD, QL, FWD	4.30	39.257260, -84.25720	491	Dst. Clermont Co. WWTP	Mason
LM34	C, D, N, H, O, B, S,	HD, QL, FB	2.00 - 2.10	39.163070, -84.27795	494	at. SR131 extension	East Cincinnati
LM35	C, D, N, H, O, B, S,	HD, QL, FB	1.00 - 1.60	39.163290, -84.28280	498	Dst. Milford WWTP	East Cincinnati
LM36	C, D, N, H, O, B, S,	HD, QL, FB	0.70	39.163290, -84.26286	499	Dst. S. Milford Rd.	East Cincinnati
<b>WAU 14-05 – Dry Run</b>							
<i>[11-005] - Dry Run (LMR RM 7.54)</i>							
LM70	C, D, N, O, B, S	QL, FHW, PHW	5.50 - 5.70	39.086330, -84.30877	0.7	Ust. Clough Pike	East Cincinnati
LM66	C, D, N, H, O, B, S	QL, FHW	4.10 - 4.20	39.105300, -84.31891	3.1	Ust. 8 Mile Rd.	East Cincinnati
LM67	C, D, N, H, O, B, S	QL, FHW	2.50	39.123760, -84.32921	4.7	Dst. Batavia Pike	East Cincinnati
LM68			0.60	39.136880, -84.35579	5.4	at Bass Island Park	East Cincinnati
<i>[11-064] - Trib to Dry Run (4.20)</i>							
LM69	C, D, N, B	QL, PHW	0.10 - 0.20	39.103280, -84.32314	0.9	Ust. 8-Mile Creek	East Cincinnati
<i>[11-004] - Duck Creek (LMR RM 3.87)</i>							
LM71	C, D, N, H, O, B, S	QL, FHW, PHW	6.00	39.161710, -84.43745	2.2	at Duck Creek Rd. (upstream)	East Cincinnati
LM78	C, D, N, H, O, B	QL, FHW, PHW	5.20 - 5.30	39.165000, -84.42643	3.2	Adj. SR I-71 N.	East Cincinnati
LM72	C, D, N, H, O, B, S,	QL, FHW	4.60 - 4.70	39.164790, -84.41734	5.1	Dst. Duck Creek Rd.	East Cincinnati
LM73	C, D, N, H, O, B, S	QL, FHW	4.40	39.160180, -84.41657	5.8	Ust. Madison Rd.	East Cincinnati
LM75	C, D, N, H, O, B, S	QL, FHW	3.30	39.149450, -84.40827	11.4	at Erie Ave.	East Cincinnati
LM76	C, D, N, H, O, B, S,	HD, QL, FHW	2.30 - 2.90	39.144570, -84.40589	11.8	adj. Red Bank Rd.	East Cincinnati
LM77	C, D, N, H, O, B, S,	QL, FHW	1.80	39.132570, -84.40484	14.3	at Power St.	East Cincinnati
LM91	O, S		1.00	39.123530, -84.41154	14.5	Linwood Park	East Cincinnati
LM79	C, D, N, H, O, B, DS	QL	0.90	39.121900, -84.41085	14.6	at Wooster Pike	East Cincinnati
<i>[11-051] - East Fork Duck Creek</i>							
LM81		FHW, PHW	2.30 - 6.10	39.187090, -84.40059	0.3	4016 Plainfield Rd.	East Cincinnati

Table 7. continued

Site ID	Chemical Sampling Type	Biological Sample Type	River Mile Range	Site ID Latitude Longitude	Drainage Area (mi <sup>2</sup> )	Location Description	USGS QUAD
LM85	C, D, N, H, B	QL, FHW, PHW	1.50 - 1.90	39.178640, -84.39526	1.5	Stewart Ave. across from BMW dealer	East Cincinnati
LM84	C, D, N, H, B, DS	QL, FHW, PHW	0.50 - 0.60	39.162630, -84.40243	2.3	adj. Red Bank Rd.	East Cincinnati
LM74	C, D, N, H, O, B, S,	QL, FHW, PHW	0.15 - 0.20	39.158850, -84.40648	3.4	Dst. CSO 71 and 66	East Cincinnati
<i>[11-075] - Unnamed Trib to Duck Creek at RM 4.8</i>							
LM83		PHW	0.80	39.174040, -84.42355	1.2	Ust. Home Depot	East Cincinnati
LM80	C, D, N, H, O, B	QL, FHW, PHW	0.10 - 0.20	39.167100, -84.41972	1.4	Dst. Kennedy Ave.	East Cincinnati
<i>[11-076] - Little Duck Creek</i>							
LM86	C, D, N, H, B	QL, FHW, PHW	2.70	39.160030, -84.38106	0.4	at Madison Rd.	East Cincinnati
LM87	C, D, N, H, B	QL, FHW, PHW	2.60	39.158430, -84.38071	0.5	at Plainville Rd.	East Cincinnati
LM90	C, D, N, H, O, B	QL, FHW, PHW	2.30 - 2.40	39.156390, -84.38515	0.5	at Settle Rd.	East Cincinnati
LM88	C, D, N, H, O, B	PHW	1.70 - 1.80	39.151000, -84.38855	0.8	at Bramble Rd.	East Cincinnati
LM89	C, D, N, H, O, B	QL, FHW, PHW	1.30 - 1.40	39.147010, -84.39137	1.1	at Watterson Rd.	East Cincinnati
LM92	C, D, N, H, B		0.20	39.135860, -84.40015	1.7	at Wooster Pike	East Cincinnati
<b>WAU 14-06 Clough Creek</b>							
<i>[11-003] - McCullough Run (LMR RM 3.7)</i>							
LM94	C, D, N, B	QL, FHW, PHW	1.30	39.120980, -84.38039	1.7	at US32 across from sod farm and soccer field	East Cincinnati
LM93	C, D, N, B	QL, FHW, PHW	1.40 - 1.60	39.115660, -84.35649	0.8	at Ragland Rd.	East Cincinnati
<i>[11-002] - Clough Creek (LMR RM 3.36)</i>							
LM99	C, D, N, H, O, B, DS	QL, FHW, PHW	4.60	39.084350, -84.08518	0.9	at Wolfangle Rd.	Batavia
LM95	C, D, N, H, O, B, DS	QL, FHW, PHW	3.20	39.093450, -84.36401	2	upstream bridge at Clough Pike	East Cincinnati
LM96	C, D, N, H, O, B, DS	QL, FHW, PHW	3.00 - 3.10	39.095340, -84.36769	5.4	Ust. Berkshire Rd. bridge	East Cincinnati
LM97	C, D, N, H, O, B, DS	HD, QL, FHW	1.20	39.109550, -84.38788	7.5	behind maple farm off Clough Pike	East Cincinnati
LM98	C, D, N, H, O, B, DS	QL, FHW	0.40 - 0.60	39.105810, -84.39481	7.8	at Elstun Rd and Beechmont Ave.	East Cincinnati
<i>[11-079] - Trib to Unnamed Trib to Clough Creek at RM3.06</i>							
LM101	C, D, N, O, B, S	QL, FHW, PHW	1.00 - 1.05	39.081010, -84.36864	0.7	at Paddison Rd.	East Cincinnati

Table 7. Continued

Site ID	Chemical Sampling Type	Biological Sample Type	River Mile Range	Site ID Latitude Longitude	Drainage Area (mi <sup>2</sup> )	Location Description	USGS QUAD
<i>[11-080] - UT at RM 0.66 to UT to Clough Creek at RM 3.06</i>							
LM102	C, D, N, O, B	QL, PHW	0.20 - 0.60	39.085840, - 84.37257	1.1	Ust. Berkshire Rd.	East Cincinnati
<i>[11-081] - UT at RM 0.95 to UT to Clough Creek at RM 3.06</i>							
LM100	C, D, N, O, B	QL, FHW, PHW	0.10 - 0.20	39.082790, - 84.36616	0.9	Ust. Robinway Dr.	East Cincinnati
<b>WAU 12-08 Five Mile Creek – Ohio River</b>							
<i>[10-001] - Five Mile Creek</i>							
LM107	C, D, N, H, O, B, DS	QL, FHW, PHW	2.40 - 2.90	39.095980, - 84.36810	2.3	at 5-Mile Rd.	East Cincinnati
LM108	C, D, N, H, O, B, DS	QL, FHW	0.10 - 0.20	39.049300, - 84.38827	4.7	Dst. SR 52 on Ramp	East Cincinnati
LM105	C, D, N, H, O, B, DS	QL, FHW, PHW	2.00 - 2.10	39.055180, - 84.31911	0.8	behind 8456 Greenleaf Dr.	East Cincinnati
<i>[10-130] - Trib to Eight Mile Creek at RM 1.01</i>							
LM106	C, D, N, B	QL, FHW, PHW	0.10	39.045770, - 84.33173	1.1	Ust. 8 Mile Rd.	East Cincinnati
<i>[10-537] - Four Mile Creek</i>							
LM104	C, D, N, H, O, B, DS	QL, FHW, PHW	0.70 - 0.90	39.057910, - 84.39752	1.1	Ust. 4-Mile Rd.	East Cincinnati
<b>WAU 08-03 Turtle Creek</b>							
<i>[11-021] - Turtle Creek</i>							
RF08	C, D, N, H, O, B, DS	FHW	6.10 - 6.80	39.431380, - 84.22480	22.5	at Glosser Rd.	Morrow
<i>[11-022] - Dry Run</i>							
RF09	C, D, N, H, O, B, DS	FHW	1.80	39.383790, - 84.20396	4.9	at Township Rd. 82	Morrow
<i>[11-030] - Newman Run</i>							
RF10	C, D, N, H, O, B, DS	0.30	39.518420, - 84.09859	9.5	at S. Cincinnati Columbus Rd.	Waynesville	RF10

HD= macroinvertebrate artificial substrate; QL – macroinvertebrate qualitative; FH = fish headwater; FW = fish wading; FB – fish boat; C= conventional water chemistry; D= demand; N= nutrients; H= heavy metals; O= organics water chemistry; B= bacterial; S= sediment chemistry; DS= Datasonde; PHW= primary headwater

<sup>1</sup>= fish and macroinvertebrates sampled by EnviroScience Inc.

The data gathered in a biosurvey is processed, evaluated, and synthesized in one of several assessment reports or outputs. This can range from a comprehensive, integrated watershed report to summaries compiled for state 305(b) reporting and extended products (e.g., 303[d] lists). Each assessment also addresses recommendations for revisions to WQS, future monitoring needs, problem discovery, or other actions which may be needed to resolve impairments of or threats to designated uses. While the principal focus of a biosurvey is on the status of aquatic life uses, the status of other uses such as recreation and water supply, as well as human health concerns may also be addressed.

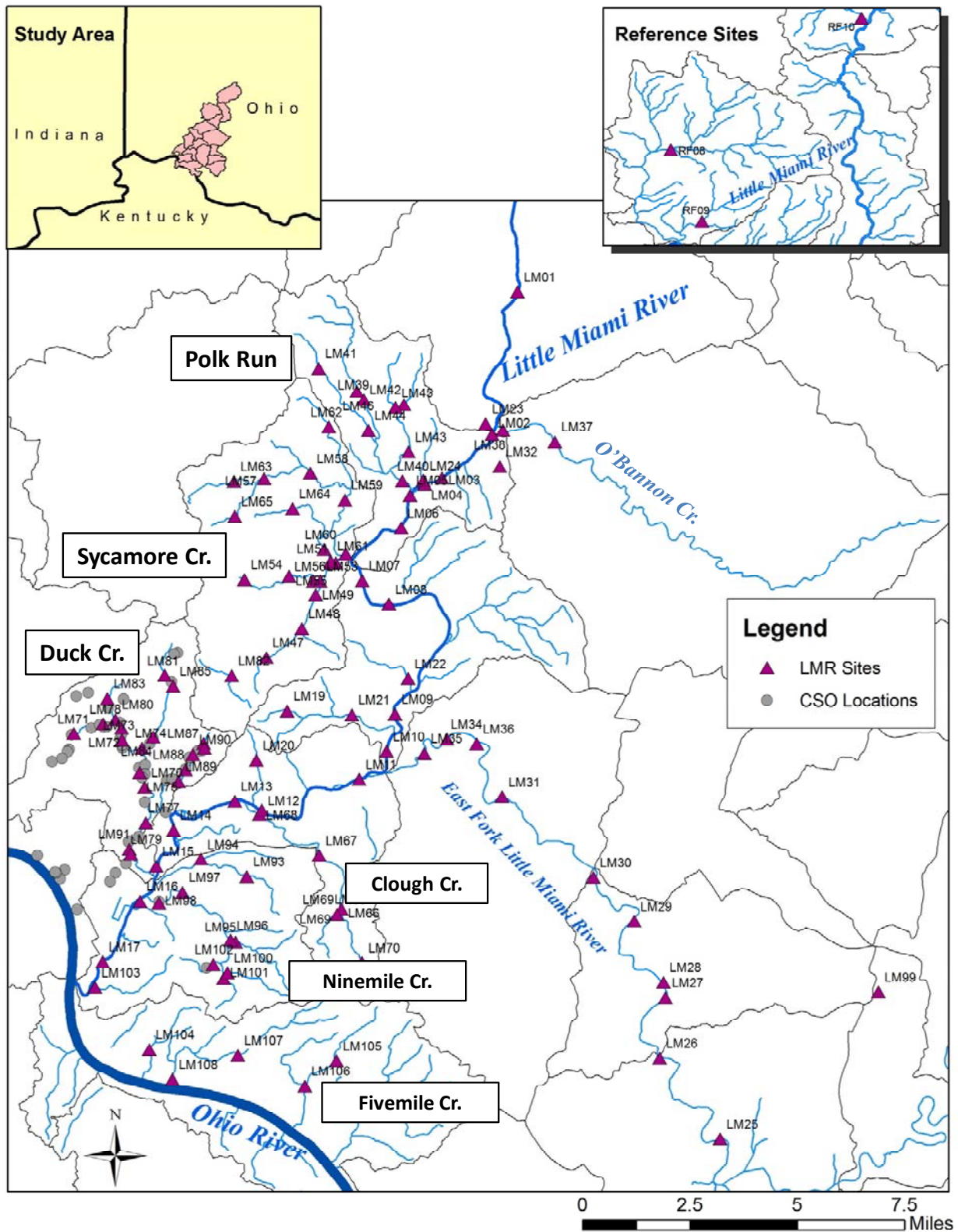


Figure 5. Map of the 2012 Little Miami River study area showing biological, chemical, and physical sampling locations (▲) with the site code, locations of wastewater discharges, and locations of CSOs. The MSDGC service area appears in the study area inset (lower right).

Functional support provided by individual basin assessments for specific water quality management activities includes the 305(b) reporting process, TMDLs/303(d) listing, revising water quality standards (i.e., use designations, criteria refinements and modifications), and NPDES permit support. Support is also provided for other management issues including site-specific 404/401 reviews, 319 projects, and enforcement actions. A positive consequence of this type of sustained, routine, and standardized effort is a database and informational resource, which supports ongoing water quality management efforts in the aggregate. This includes the development of new and improved assessment tools, improved and refined criteria, indicators development and use, concepts, policies, and rules. The critical concept is that by doing the level of monitoring and assessment that is required by the rotating basin approach, the basic informational infrastructure needed to support the entirety of water quality management is in place when the need for such support is realized. This demonstrates how this type of sustained approach is inherently anticipatory. This type of monitoring and assessment is essential to maintaining and improving the overall water quality management process.

### ***Monitoring Networks and Design***

Adequate monitoring employs a stepwise approach to the selection and use of the variety of chemical, physical, and biological indicators and measures that are currently available. The decision(s) about which indicators and parameters to use are based on:

1. The type of aquatic resource being assessed (*i.e.*, headwater stream, wadeable stream, non-wadeable large river, lake or reservoir, wetland, etc.);
2. The environmental complexity of the setting (includes consideration of all potential stressors); and,
3. The water quality management objectives and purposes that are at issue.

For example, in a small, headwater stream with only one or two potential stressors, the two biological organism groups may be assessed using a relatively rapid bioassessment protocol accompanied by a *qualitative* habitat assessment, and comparatively limited chemical water quality sampling analyzing for field, demand, and nutrient series parameters. A relative few (e.g., 2-3) sampling sites would suffice and the field sampling would be completed in the matter of a few hours with one visit for biology and habitat and 1-3 samples for chemical/physical parameters. The resulting assessment could be turned around in a matter of a few days if necessary. In more complex watershed settings with multiple management issues, multiple and complex stressors, and the potential for the discovery of unknown and undocumented sources, the cumulative sampling requirements are more intensive, but may include many of the preceding example within a watershed. In addition, the bioassessment protocols are tailored to the resource that now includes mainstem rivers and streams. The accompanying habitat assessment remains much the same, but chemical water quality sampling includes more intensive and frequent sampling for heavy metals, other selected toxics, and organic scans of both the water column and bottom sediments. Continuous monitoring of temperature and D.O. would also be included in complex settings. The density and distribution of sampling sites would be in proportion to the size of the watershed and would also consider the location and

entry of potential stressors into the aquatic ecosystem. A systematic sampling effort spans a summer-fall index period (mid-June through mid-October), requiring many sampling days and multiple field crews to complete. Data analysis and reporting culminate in the production of a comprehensive assessment months after the sampling is completed. This ensures that the careful analysis of multiple indicators and assignments of causes and sources is performed in accordance with sound indicator practice and procedures.

A key issue within watershed assessment is the selection of spatial and temporal monitoring designs. It is now widely recognized that fixed station designs that were once the mainstay of State monitoring programs are simply insufficient to meet the previously stated program objectives. However, this is not to conclude that fixed stations do not have an appropriate role in a monitoring program. Simply stated, they are *alone* insufficient to support management decision-making at the local watershed scale. Selecting information-effective spatial monitoring designs is a critical step in the process of developing an adequate watershed monitoring program.

A relatively new design that has recently been implemented in Ohio is termed the Geometric Site Selection process - it is used as part of the statewide five-year rotating basin approach (Ohio EPA 1999). This design is employed within watersheds that correspond to the 10-12 digit HUC scale in order to fulfill multiple water quality management objectives in addition to the conventional focus on status assessment. It is employed at a spatial scale that is representative of the scale at which watershed management is generally being conducted. In the Midwestern U.S., most HUC 10 watersheds drain approximately 150-300 mi<sup>2</sup>. Sites within a watershed of this size are allocated based on a geometric progression of drainage areas starting with the area at the mouth of the mainstem river or stream and working "upwards" through the various tributaries to the primary headwaters (Figure 3). This approach allocates sampling sites in a semi-random fashion and according to the stratification of available stream and river sizes based on drainage area. It is then supplemented by a targeted selection of additional sampling sites that are used to focus on localized management issues such as point source discharges, habitat modifications, and other potential impacts within a watershed.

This design also fosters data analysis that takes into consideration overlying natural and human caused influences within the streams of a watershed. The example in Figure 3 also demonstrates the multiple management issues that are supported including the proportionate assessment of the member streams and rivers, applying tiered designated uses for aquatic life, the development of TMDLs that include the inter-relationships of both pollutant and non-pollutant stressors, and the development of a comprehensive spatially representative database through time. Other benefits of this design include the application of cost-effective sampling methods on a watershed scale, development of a stratified database, and the enhanced ability to capture previously unassessed streams. The design has been particularly useful for watersheds that are targeted for total maximum daily load (TMDL) development in that unassessed waters and incomplete or outdated assessments can be addressed prior to TMDL development.



The delineation of recommended sampling locations of the MSDGC watershed bioassessment was developed following a stepwise process. Since the MSDGC service area is fairly rich in current and historical Ohio EPA biological and chemical and MSDGC chemical sampling locations MBI delineated those sites first in the GIS coverage for the 11 subwatersheds. This was followed by a geometric draw that was then merged with the existing Ohio EPA and MSDGC sites. A total of eight drainage “panels” were derived from the geometric draw starting at 164 mi<sup>2</sup> and subsequently halving each reduction down to 1.0 mi<sup>2</sup>. Overlapping sites were merged and generally included sites greater than 10 mi<sup>2</sup> resulting in the first allocation of potential sampling sites. The geometric draw yielded the most unique “new” sites at drainage areas less than 5-10 mi<sup>2</sup>. The merged sites were then apportioned by each of the 3 subwatersheds in spreadsheets that included the site coordinates, Ohio EPA stream and basin code, Ohio EPA river mile, and our assignments of biological, chemical, and physical sampling gear and methods. Additional targeted sites were added during the pre-field study planning downstream from major discharges, potential pollution sources, and dams and to provide a “pollution profile” of Little Miami River mainstem and major tributaries.

### ***Measuring Incremental Changes***

Incremental change is defined here to represent a measurable and technically defensible, change in the condition of a water body within which it has been measured. Most commonly this is termed “incremental improvement” in which the condition of a water body that does not yet fully meet all applicable WQS can be tracked as to the direction of any changes. The general principles of incremental change are defined as follows (after Yoder and Rankin 2008):

- ***measurement of incremental change*** can be accomplished in different ways, provided the measurement method is scientifically sound, appropriately used, and sufficiently sensitive enough to generate data from which signal can be discerned from noise;
- ***measurable parameters and indicators*** of incremental change include biological, chemical, and physical properties or attributes of an aquatic ecosystem that can be used to reliably indicate a change in condition; and,
- ***a positive change in condition*** means a measurable improvement that is related to a reduction in a specific pollutant load, a reduction in the number of impairment causes, a reduction in an accepted non-pollutant measure of degradation, or an increase in an accepted measure of waterbody condition relevant to designated use support.

This was accomplished for this study by comparing the results of prior, comparable assessments. In this case the 1992 bioassessment by Ohio EPA (1994) serves as the baseline against which the 2011 results can be compared to assess incremental changes in key parameters and indicators.

### **Biological Methods**

Selection of the appropriate biological assessment method is primarily driven by defining appropriate data quality objectives (DQOs), which are determined by the cumulative array of management goals and objectives, and standards set by state or federal agencies. For the

MSDGC watersheds these are defined by the applicable protocols published by the Ohio EPA (1987a,b; 1989a,b; 1999, 2002, 2006, 2009, 2012). Additionally, the management issues which occur in the study area are varied and complex. MSDGC is under a consent decree to develop implementation plans to reduce wet weather discharges from CSOs to service area rivers and streams by *2 billion gallons* by 2018. As such the goals for the MSDGC program are to:

- Develop a comprehensive, systemic tool for tracking and sharing water quality data, including trends, conditions and opportunities; and,
- Use an IPS tool for capital planning and environmental program opportunities for maximum benefit to align with water quality needs.

As such MSDGC will require data that meets the specification of the Ohio WQS as it will be used to assess current aquatic life and recreational use designations, to determine the extent and severity of impairments, and document incremental changes that result from management intervention and abatement actions.

### ***Fish Assemblage Methods***

Methods for the collection of fish at wadeable sites was performed using a tow-barge or long-line pulsed direct current (D.C.) electrofishing equipment based on a T&J 1736 DCV electrofishing unit described by Ohio EPA (1989). An ETS AbP-3 battery powered backpack electrofishing unit was used as an alternative to the long line in the smallest streams and in accordance with the restrictions described by Ohio EPA (1989).

A three person crew carried out the sampling protocol for each type of wading equipment. Sampling effort was indexed to lineal distance and ranged from 150- 200 meters in length. Non-wadeable sites were sampled with a raft-mounted pulsed D.C. electrofishing device. A Smith-Root 2.5 GPP unit was mounted on a 14' Sea eagle raft with an electrode array in keeping with Ohio EPA (1989a) electrofishing design specifications. Sampling effort for this method was 500 meters. A summary of the key aspects of each method appears the Bioassessment Plan (MBI 2011). Sampling distance was measured with a Global Positioning System (GPS) unit or laser range finder. Sampling locations were delineated using the GPS mechanism and indexed to latitude/longitude and Universal Transverse Mercator (UTM) coordinates at the beginning, end, and mid-point of each site. The location of each sampling site was indexed by river mile (using river mile zero as the mouth of the river).

Sampling was conducted during a June 16-October 15 seasonal index period twice at all sites. Samples from each site were processed by enumerating and recording weights by species and in some cases by life stage (y-o-y, juvenile, adult). All captured fish were immediately placed in a live well, bucket, or live net for processing. Water was replaced and/or aerated regularly to maintain adequate dissolved oxygen levels in the water and to minimize mortality. Fish not retained for voucher or other purposes were released back into the water after they had been identified to species, examined for external anomalies, and weighed. Weights were recorded at level 1-5 sites only. Fish measuring less than 15-20 mm in length were generally not included in the data as a matter of practice.

The incidence of external anomalies was recorded following procedures outlined by Ohio EPA (1989) and refinements made by Sanders et al. (1999). While the majority of captured fish were identified to species in the field, any uncertainty about the field identification of individual fish required their preservation for later laboratory identification. Fish were preserved for future identification in borax buffered 10% formalin and labeled by date, river or stream, and geographic identifier (e.g., river mile). Identification was made to the species level at a minimum and to the sub-specific level if necessary. A number of regional ichthyology keys were used and included the Fishes of Ohio (Trautman 1981). Vouchers were deposited at and verified by The Ohio State University Museum of Biodiversity (OSUMB).

### ***Macroinvertebrate Assemblage Methods***

Macroinvertebrates were sampled using modified Hester-Dendy artificial substrate samplers (quantitative sample) and a qualitative dip net/hand pick method in accordance with Ohio EPA macroinvertebrate assessment procedures (Ohio EPA 1989a). The artificial substrates were exposed for a colonization period of six weeks between July 12 and September 14 and placed to ensure adequate stream flow over the plates, but in general samplers should be set where flow is 0.3 feet/second over the plates. A qualitative sample using a triangular frame dip net and hand picking was collected at the time of substrate retrieval. All samples were initially preserved in a 10% solution of formaldehyde. Substrates were transferred to the laboratory, disassembled, sieved (standard no. 30 and 40), and transferred to 70% ethyl alcohol.

Qualitative samples were collected at each site either at the time of artificial substrate retrieval or as a standalone assessment of sites generally <10 mi.<sup>2</sup>. These samples were collected using a triangular frame 30-mesh dip net. All available habitats were sampled at a given site for a total time of at least 30 minutes and thereafter until no new taxa were observed based on visual examination. These samples were preserved in 70% ethanol and included representatives of each taxon and an estimate of relative abundance using narrative descriptors (Ohio EPA 1989a). Qualitative sample data are used to supplement the quantitative samples in the case of artificial substrate sets, but also function as standalone assessment for sites where the artificial substrates were either not retrieved or otherwise made unusable.

Laboratory sample processing of both the quantitative and qualitative samples included an initial scan and pre-pick for large and rare taxa followed by subsampling procedures in accordance with Ohio EPA (1989a). Identifications were performed to the lowest taxonomic resolution possible for the commonly encountered orders and families, which is genus/species for most organisms. From these results, the density of macroinvertebrates per square foot is determined as well as a taxonomic richness and an Invertebrate Community Index (ICI; Ohio EPA 1987; DeShon 1995) score for the quantitative samples and a narrative assessment for the standalone qualitative samples.

### ***Area of Degradation (ADV) and Area of Attainment Values (AAV)***

The ADV (Yoder and Rankin 1995b; Yoder et al. 2005) was originally developed to quantify the extent and severity of departures from biocriterion within a defined river reach. For reaches

that exceed a biocriterion it is expressed as an AAV that quantifies the extent to which minimum attainment criteria are surpassed is. The ADV/AAV correspond to the area of the polygon formed by the longitudinal profile of IBI scores and the straight line boundary formed by a criterion, the ADV below and the AAV above. The computational formula (after Yoder et al. 2005) is:

$$\text{ADV/AAV} = \sum [(a\text{IBI}_a + a\text{IBI}_b) - (p\text{IBI}_a + p\text{IBI}_b)] * (\text{RM}_a - \text{RM}_b), \text{ for } a = 1 \text{ to } n, \text{ where;}$$

aIBI<sub>a</sub> = actual IBI at river mile a,  
 aIBI<sub>b</sub> = actual IBI at river mile b,  
 pIBI<sub>a</sub> = IBI biocriterion at river mile a,  
 pIBI<sub>b</sub> = IBI biocriterion at river mile b,  
 RM<sub>a</sub> = upstream most river mile,  
 RM<sub>b</sub> = downstream most river mile, and  
 n = number of samples.

The average of two contiguous sampling sites is assumed to integrate biological assemblage status for the distance between the points. The intensive pollution survey design typically positions sites in close enough proximity to sources of stress and along probable zones of impact and recovery so that meaningful changes are adequately captured. Biological assemblages as portrayed by their respective indices have been observed to change predictably in proximity to major sources and types of pollution in numerous instances (Ohio EPA1987a; Yoder and Rankin 1995b; Yoder and Smith 1999; Yoder et al. 2005). Thus, the longitudinal connection of contiguous sampling points produces a reasonably accurate portrayal of the extent and severity of impairment in a specified river reach as reflected by the indices (Yoder and Rankin 1995a).

The total ADV/AAV for a specified river segment is normalized to ADV/AAV units/mile for making comparisons between years and rivers. The ADV is calculated as a negative (below the biocriterion) expression; the AAV is calculated as a positive (above the biocriterion) expression. Each depicts the extent and degree of impairment (ADV) and attainment (AAV) of a biological criterion, which provides a more quantitative depiction of quality than do pass/fail descriptions. It also allows the visualization of incremental changes in condition that may not alter the pass/fail status, but are nonetheless meaningful in terms of incremental change over space and time. In these analyses, the WWH biocriterion for the fish and macroinvertebrate indices, which vary by use designation and ecoregion, were used as the threshold for calculating the ADV and AAV for the Little Miami River watersheds mainstem. The WWH use designation represents the minimum goal required by the CWA for the protection and propagation of aquatic life, thus it was used as a standard benchmark for the ADV/AAV analyses.

### ***Primary Headwater Methods***

PHWH methods were also applied to all sites <2.5 mi.<sup>2</sup> in anticipation that the resulting site assessment would need to be based on the PHWH system of classification. An exception was at stream sites that were completely dry during any of the sampling visits in which case a HHEI

was applied at a minimum. Methods for the collection of macroinvertebrates and salamanders at PHWH sites followed the qualitative macroinvertebrate collection techniques used by the Ohio EPA for all stream types (Ohio EPA 1989) and in accordance with the PHWH manual (Ohio EPA 2012). Salamander collections are made in two 30 feet subsections of the 200 feet stream reach assessed for a PHWH evaluation. Each subsection was chosen where an optimal number and size of cobble type microhabitat substrates are present. A minimum of 30 minutes was spent searching for salamanders. At least five larvae and two juvenile-adults of each species type observed were preserved. Adult and juvenile salamanders were placed into plastic bags with moist leaf litter. The larva are transported in stream water and placed in a cooler and brought back to the lab for preparation of voucher specimens.

### **Habitat Assessment**

Physical habitat was evaluated using the QHEI developed by the Ohio EPA for streams and rivers in Ohio (Rankin 1989, 1995). Various attributes of the habitat are scored based on the overall importance of each to the maintenance of viable, diverse, and functional aquatic faunas. The type(s) and quality of substrates, amount and quality of instream cover, channel morphology, extent and quality of riparian vegetation, pool, run, and riffle development and quality, and gradient are some of the metrics used to determine the QHEI score which generally ranges from 20 to less than 100. The QHEI is used to evaluate the characteristics of a stream segment, as opposed to the characteristics of a single sampling site. As such, individual sites may have poorer physical habitat due to a localized disturbance yet still support aquatic communities closely resembling those sampled at adjacent sites with better habitat, provided water quality conditions are similar. QHEI scores from hundreds of segments around the state have indicated that values greater than 60 are generally conducive to the existence of warmwater faunas whereas scores less than 45 generally cannot support a warmwater assemblage consistent with baseline Clean Water Act goal expectations (e.g., the WWH in the Ohio WQS).

Physical habitat was also evaluated at the PHWH sites using the Headwater Habitat Evaluation Index (HHEI) developed by Ohio EPA (2012). The HHEI scores various attributes of the physical habitat that have been found to be statistically important determinants of biological community structure in PHWH streams with drainage areas less than 1 mi.<sup>2</sup>. Statistical analysis of a large number of physical habitat measurements showed that three QHEI habitat variables (channel substrate composition, bank full width, and maximum pool depth) are sufficient in distinguishing the physical habitat of Class 1, 2, and 3 PHWH streams using the HHEI. The characterization of the channel substrate includes a visual assessment of a 200 feet stream reach using a reasonably detailed evaluation of both the dominant types of substrate and the total number of substrate types. Bank full width is a morphological characteristic of streams that is determined by the energy dynamics related to flow and has been found to be a strong discriminator of the three classes of PHWH streams in Ohio. The bank full width is the average of 3-4 separate bank full measurements along the stream reach. The maximum pool depth within the stream reach is important since it is a key indicator of whether the stream can support a WWH fish assemblage. Streams with pools less than 20-40 cm in depth during the

low flow periods of the year are less likely to have WWH fish assemblages and thus more likely to have viable populations of lungless salamanders, which replace fish as the key vertebrate indicator in PHWH streams.

### **Chemical/Physical Methods**

Chemical/physical assessment for the MSDGC service area includes the collection and analysis of water samples for chemical/physical and bacterial analysis and sediment samples for determining sediment chemical quality. Methods for the collection of water column chemical/physical and bacterial samples followed the procedures of Ohio EPA (2009) and MSDGC (2011c). Sediment chemical sampling followed that described by Ohio EPA (2009). All laboratory analysis was performed and/or overseen by MSDGC.

#### ***Water Column Chemical Quality***

Water column chemical quality was determined by the collection and analysis of grab water samples, instantaneous measurements recorded with a water quality meter, and continuous measurements recorded at 3-4 day intervals in the mainstem and larger tributary sites and at the reference sites.

#### ***Grab Sampling***

Grab samples of water were collected with a stainless steel bucket from a location as close to the center point of the stream channel as possible by MBI and MSDGC sampling crews. Samples were collected from the upper 12-24" of the surface and then transferred to sample containers in accordance with MSDGC procedures (MSDGC 2011c). Sampling was conducted between mid-June and mid-October and under "normal" summer-fall low flows – elevated flows following precipitation events were avoided and sampling was delayed until flows subsided. The frequency of sampling ranged from approximately weekly at mainstem sites and sites with multiple impacts to bi-weekly, 4 times per season, 2 times per season, and once at Primary Headwater sites. Water samples were collected provided there was sufficient water depth to collect a sample without disturbing the substrates. Instantaneous values for temperature (°C), conductivity ( $\mu\text{S}/\text{cm}^2$ ), pH (S.U.), and dissolved oxygen (D.O.; mg/l) were recorded with a YSI Model 664 meter at the time of grab sample collection.

#### ***Continuous Recordings***

Continuous readings of temperature (°C), conductivity ( $\mu\text{S}/\text{cm}^2$ ), pH (S.U.), and dissolved oxygen (D.O.; mg/l) were recorded with a YSI 6920 V2 Sonde ("Datasonde") instrument at mainstem, major tributary, and reference site locations. The Datasondes were set as close as possible to the Thalweg (i.e., deepest part of the stream channel) in a PVC enclosure that ensured no contact with the stream bottom or other solid objects. The Datasondes were positioned vertically where depth allowed by driving steel fence posts into the bottom and positioning the PVC enclosure in an upright position. Where the depth was too shallow the PVC enclosure was secured in a horizontal position in an area of the stream channel with continuous flow. All Datasondes were secured against theft or vandalism as much as possible. Datasondes were deployed for a 3-4 day continuous interval between mid-July and early September during

periods of maximum summer temperatures and normal low flows. Readings were taken at 15 minute intervals. At the time of retrieval data was downloaded to a YSI Model 650 Instrument with high memory capacity and then transferred to a PC for storage and later analysis.

### ***Sediment Chemical Quality***

Fine grain sediment samples were collected in the upper 4 inches of bottom material at each sampling location using decontaminated stainless steel spoons and excavated using nitrile gloves. Decontamination of sediment sampling equipment followed the procedures outlined in the Ohio EPA sediment sampling guidance manual (Ohio EPA 2001).

Sediment grab samples were homogenized in stainless steel pans (material for VOC analysis was not homogenized), transferred into glass jars with teflon® lined lids, placed on ice (to maintain 4°C) in a cooler, and delivered to Metropolitan Sewer District of Greater Cincinnati, Division of Industrial Waste Lab. Sediment data is reported on a dry weight basis. Sediment samples were analyzed for inorganics (metals), nutrients, volatile organic compounds, semivolatile organic compounds, PCBs, total petroleum hydrocarbons, polycyclic aromatic hydrocarbons (PAHs) and cyanide.

### **Determining Use Attainment Status**

Use attainment status is a term which describes the degree to which environmental parameters or indicators are either above or below criteria specified by the Ohio WQS (Ohio Administrative Code 3745-1). For the Little Miami River watersheds assessment two use designations are being evaluated, aquatic life and recreation in and on the water by humans. Hence the process herein is referred to as the determination of aquatic life and recreational status for each sampling site. The process is applied to data collected by ambient assessments and applies to rivers and streams outside of discharge mixing zones.

### ***Aquatic Life***

Aquatic life use attainment status is determined by the Ohio EPA biological criteria (OAC 3745-1-07; Table 7-13). Numerical biological criteria are based on multimetric biological indices which include the IBI and MIwb, which indicate the response of the fish assemblage, and the ICI, which indicates the response of the macroinvertebrate assemblage. The IBI and ICI are multimetric indices patterned after an original IBI described by Karr (1981) and Fausch *et al.* (1984) and subsequently modified by Ohio EPA (1987) for application to Ohio rivers and streams. The ICI was developed by Ohio EPA (1987) and is further described by DeShon (1995). The MIwb is a measure of fish community abundance and diversity using numbers and weight information and is a modification of the original Index of Well-Being originally applied to fish community information (Gammon 1976; Gammon *et al.* 1981). Numerical biocriteria are stratified by ecoregion, use designation, and stream or river size. Three attainment status results are possible at each sampling location - full, partial, or non-attainment. Full attainment means that all of the indices meet the applicable biocriteria. Partial attainment means that one or more of the indices fails to meet the applicable biocriteria. Non-attainment means that none of the indices meet the applicable biocriteria or one of the organism groups reflects poor or

very poor quality. An aquatic life use attainment table (see Table 2) is constructed based on the sampling results and is arranged from upstream to downstream and includes the sampling locations indicated by river mile, the applicable biological indices, the use attainment status (*i.e.*, full, partial, or non), the Qualitative Habitat Evaluation Index (QHEI), and comments and observations for each sampling location. The use attainment table is further organized by Ohio EPA Waterbody Assessment Unit so that the results can be used by Ohio EPA for assessment purposes.

#### *Primary Headwater Habitat (PHWH)*

Sites that were determined to be PHWH streams were assessed by that Ohio EPA methodology (Ohio EPA 2002, 2012). Determining the applicability of the PHWH classification entailed first ruling out the applicability and attainability of the WWH suite of uses. Once this determination was made the sites were assigned to one of the 3 PHWH classes and their subclasses if applicable. The possible class assignments are described as follows:

Class 1 – These are ephemeral streams. They have little or no aquatic life potential, except seasonally when flowing water is present for short time periods following precipitation or snow melt. Streams assigned to Class 1 PHWH may be typified by one or more of the following characteristics:

- no significant habitat for aquatic fauna;
- no significant aquatic wildlife use; and
- limited or no potential to achieve higher PHWH class functions.

Class 2 – These streams are normally intermittent, but may have perennial flow. They may exhibit moderately diverse communities of warm water adapted native fauna present either seasonally or year-round. The native fauna is characterized by species of vertebrates (temperature facultative species of amphibians and pioneering species of fish) and benthic macroinvertebrates. Pool depth and water volume are normally insufficient to support the biological criteria associated with other sub-categories of aquatic life described in OAC Rule 3745-1-07. Prevailing temperature conditions in Class 2 PHWH streams prevent establishment of Class 3 biology and function.

Class 3 – These are perennial streams in which the prevailing flow and temperature conditions in Class 2 PHWH streams are influenced by groundwater. They exhibit moderately diverse to highly diverse communities of cold water adapted native fauna present year-round. Pool depth and water volume are normally insufficient to support the biological criteria associated with other sub-categories of aquatic life described in OAC Rule 3745-1-07:

- Class 3A PHWH – These are perennial streams that exhibit diverse communities of native fauna. The native fauna is characterized by:
  - reproducing populations of one or more of these salamander species (sub-species): the Northern Two-Lined Salamander (*Eurycea bislineata bislineata*), the Southern



- Two-Lined Salamander (*Eurycea bislineata cirrigera*), the Northern Longtail Salamander (*Eurycea longicauda*), or;
- benthic macroinvertebrates, including four or more cold water macroinvertebrate taxa from Attachment 3 of the Ohio EPA *Field Evaluation Manual for Ohio's Primary Headwater Habitat Streams Version 3.0* (Ohio EPA 2012).
  - Class 3B PHWH – These are perennial streams that exhibit superior species composition or diversity of native fauna. The native fauna is characterized by:
    - a reproducing population of one or more vertebrate species as listed in Table 7 of the Ohio EPA *Field Evaluation Manual for Ohio's Primary Headwater Habitat Streams Version 3.0* (Ohio EPA 2012); or
    - a macroinvertebrate community consisting of at least four cold water taxa from Attachment 3 of the Ohio EPA *Field Evaluation Manual for Ohio's Primary Headwater Habitat Streams Version 3.0* (Ohio EPA 2012) and also having two or more of the following attributes:
      - Six or more cold water macroinvertebrate taxa listed in Attachment 3 of the Ohio EPA *Field Evaluation Manual for Ohio's Primary Headwater Streams Version 3.0* (Ohio EPA 2012);
      - Six or more taxa from the insect orders Ephemeroptera, Plecoptera and Trichoptera; six or more sensitive macroinvertebrate taxa (Ohio EPA 2012).

### **Recreation**

Water quality criteria for determining attainment of recreational uses are established in the Ohio WQS (OAC 3745-1-07; Table 7-13) based upon the quantities of bacterial indicators (*Escherichia coli*) present in the water column. *Escherichia coli* (*E. coli*) bacteria are microscopic organisms that are normally present in large numbers in the feces and intestinal tracts of humans and other warm-blooded animals. *E. coli* typically comprises approximately 97 percent of the organisms found in the fecal coliform bacteria of human feces (Dufour 1977). There is currently no simple way to differentiate between human and animal sources of coliform bacteria in surface waters, although methodologies for this type of analysis are being developed including current research supported by MSDGC. These microorganisms can enter water bodies where there is a direct discharge of human and animal wastes, or may enter water bodies along with runoff from soils where wastes have been deposited. Pathogenic (disease-causing) organisms are typically present in the environment in such small amounts that it is impractical to monitor every type of pathogen. Fecal indicator bacteria by themselves, including *E. coli*, are usually not pathogenic. However, some strains of *E. coli* can be pathogenic, capable of causing serious illness. Although not necessarily agents of disease, fecal indicator bacteria such as *E. coli* may indicate the potential presence of pathogenic organisms that enter the environment through the same pathways. When *E. coli* are present in high numbers in a water sample, it invariably means the water has received fecal matter from one or multiple sources. Swimming or other recreation-based contact with water having a high *E. coli* counts may result in ear, nose, and throat infections, as well as stomach upsets, skin rashes,

and diarrhea. Young children, the elderly, and those with depressed immune systems are most susceptible to infection.

Streams in the Little Miami River watersheds are designated as PCR and/or SCR use in the Ohio WQS (OAC 3745-1- 24). Water bodies with a designated recreation use of PCR “. . . are suitable for one or more full-body contact recreation activities such as, but not limited to, wading, swimming, boating, water skiing, canoeing, kayaking, and scuba diving” (OAC 3745-1- 07 [B][4][b]). There are three subclasses of the PCR use that reflect differences in the potential frequency and intensity of human uses. Streams designated PCR class A support, or potentially support, frequent primary contact recreation activities. Streams designated PCR class B support, or potentially support, occasional primary contact recreation activities. Streams designated as PCR class C support, or potentially support, infrequent primary contact recreation activities. Streams designated as SCR use are rarely used for water based recreation. The Ohio WQS also include a bathing waters (BW) recreational use designation that applies to public beaches, but none occur in Little Miami River watersheds.

The *E. coli* criterion that applies to PCR class A streams is expressed as a geometric mean of  $\leq 126$  colony forming units (cfu)/100 ml. The *E. coli* criterion that applies to PCR class B streams is a geometric mean of  $\leq 161$  cfu/100 ml and the criterion that applies to PCR class C streams is a geometric mean of  $\leq 206$  cfu/100 ml. The criterion that applies to SCR streams is  $\leq 1,030$  cfu/100 ml. The geometric mean is to be based on two or more samples and is used as the basis for determining the attainment status of the recreation use.

### Determining Use Attainability

Use designation reviews and recommendations for revisions, if necessary, are a direct product of the 2011 Little Miami River watersheds watershed assessment. The spatial sampling scheme was designed to enhance this function of the watershed assessment and is applied to individual streams and stream segments. Ohio’s aquatic life uses are designated based on the *demonstrated potential* to attain a particular use tier based on the following sequence (in order of importance):

1. Attainment of the numeric biological criteria (if attaining WWH or higher – attainment of the EWH biocriteria for both assemblages is required to be designated as EWH); and,
2. If the WWH use designation is not met, the habitat potential is determined by an analysis of a QHEI habitat attributes matrix which is used to determine the potential to attain the WWH use at a minimum.

As such this represents a “UAA type” of process even though a use attainability analysis (UAA) is technically not required to designate uses at or above the “CWA minimum” (i.e., WWH in Ohio). This process is inherently data driven so that the same sequence of decision-making is executed regardless of the relationship of the current use designation to the minimum CWA goal. To designate uses less than WWH (i.e., MWH or LRW), a UAA *is required* and includes the

consideration of the factors that essentially preclude WWH use attainment including the feasibility of restoring the waterbody. Under such an approach the following information and knowledge is required:

1. The present attainment status of the waterbody based on a biological assessment performed in accordance with the requirements of the Ohio WQS;
2. A habitat assessment to evaluate the potential to attain at least the WWH use; and,
3. A reasonable relationship between the impaired state and the precluding anthropogenic activities or other factors based on an assessment of multiple indicators used in their appropriate indicator roles and a demonstration consistent with 40CFR Part 131.10 [g][1-6].

Hence the biological assessment and the attendant habitat assessment tool are essential in making this determination. If the WWH use biocriteria are attained then that is the “best” demonstration that the use is attainable at a minimum. If the EWH biocriteria are attained *by both assemblages*, then that is justification for assigning EWH. Both scenarios are consistent with the definition of existing use in 40CFR Part 131.1 as:

*“ . . . those uses actually attained in the water body on or after November 28, 1975, whether or not they are included in the water quality standards.”*

If the WWH biocriteria are not attained, then the accompanying habitat assessment is used to determine if the habitat quality is capable of supporting WWH. If habitat is sufficient, then WWH will be the assigned use. If habitat is not sufficient, then a UAA process is employed to determine if there are precluding factors under the U.S. EPA WQS regulations (40CFR Part 131.10[g]) that are essentially “permanent” preclusions to WWH attainment. In this case the options are to either effect proven restoration techniques or assign the MWH or LRW use designations. Figures 6-8 provide an overview of the sequence of steps of the UAA process that starts with utilizing the results of the supporting biological assessment.

The initial decisions in Figure 6 focus first on biological status, specifically if the WWH biocriteria are attained or not. The reason for this is that the WWH biocriteria are the minimum condition that meets the baseline goal of the CWA, i.e., “the protection and propagation of fish, shellfish, and wildlife”. This benchmark is also important because it determines the point at which a UAA is required even though the entire process that is outlined herein is “UAA like” and requires consideration of the same types of data and analyses. If the WWH biocriteria are fully attained, then this use will apply because meeting this benchmark of attainability has been directly demonstrated. If biological attainment of the Exceptional Use biocriteria is demonstrated *by both assemblages*, then this use is designated because the attainability of this TALU tier has likewise been demonstrated. Again, each is consistent with the definition of existing use in 40CFR Part 131.3. The Exceptional Use is unique among the TALU tiers in that it requires a showing a biological attainment to be designated as such. Hence it functions as a *preservation*

### Process for Using Biological Assessments to Make Use Designation Decisions Within a TALU Framework in Ohio: Step I Overview

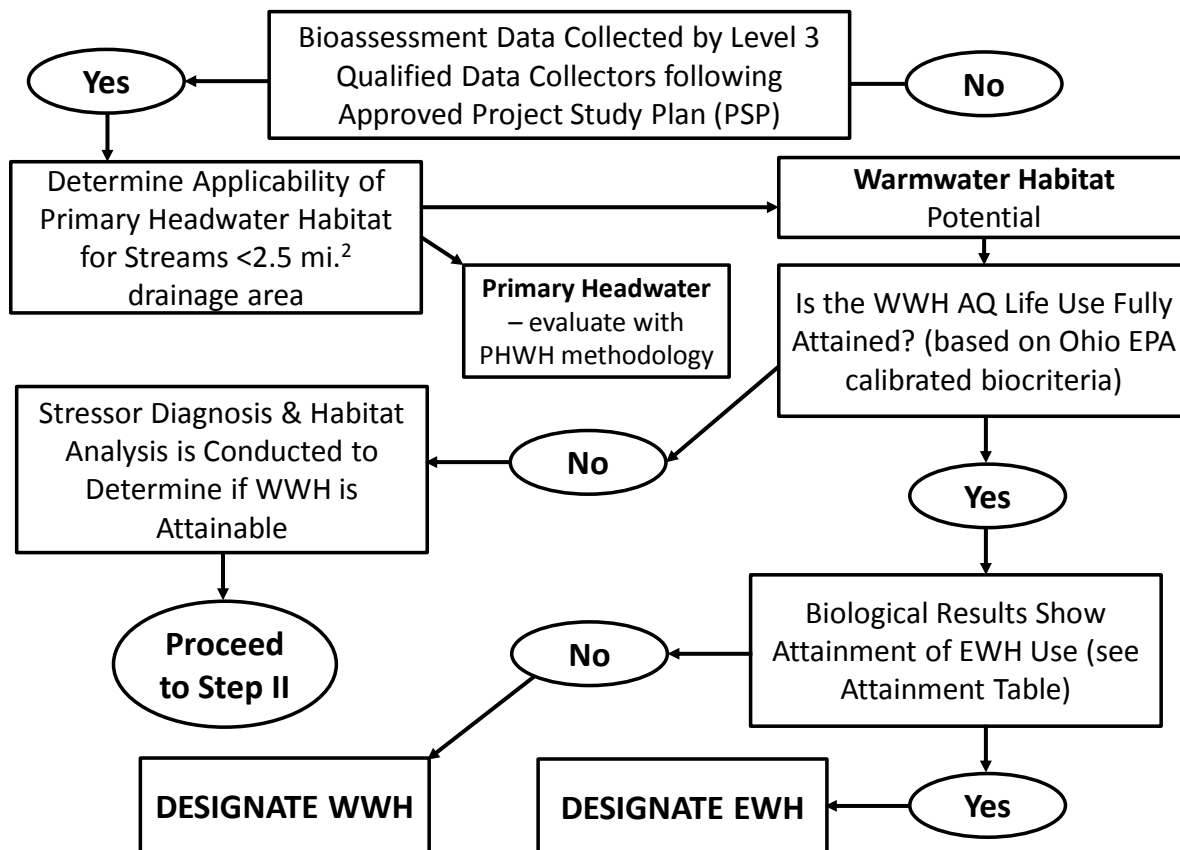


Figure 6. Step I: Overview of the process for using biological assessments to make use designation decisions in Ohio based on the tiered aquatic life uses framework.

use within a TALU framework, whereas WWH is by comparison a restoration use. Hence, attainment of either the General or Exceptional Use biocriteria triggers a straightforward decision to designate those uses. Non-attainment of the WWH biocriteria triggers a stressor diagnosis approach that is inherent to a tiered uses approach in order to determine if WWH is attainable, which leads to step II (Figure 6).

The habitat assessment that is conducted as part of the biological assessment is now relied upon to provide the information and analysis that is needed to determine if WWH is indeed attainable. This part of the process determines if the attributes of the extant habitat are sufficient to support biological assemblages consistent with the WWH biocriteria. This requires the use of the supporting analyses of the relationship between QHEI habitat attributes and the biological assemblages that yield sufficiently predictive relationships such that biological attainability can be determined. This descriptive work was accomplished at the stream and river class level by Ohio EPA (Rankin 1989, 1995). The Ohio EPA analyses yielded thresholds of QHEI scores that generally correspond to WWH attainment and also identified which QHEI

### Process for Using Biological Assessments to Make Use Designation Decisions Within a TALU Framework in Ohio: Step II

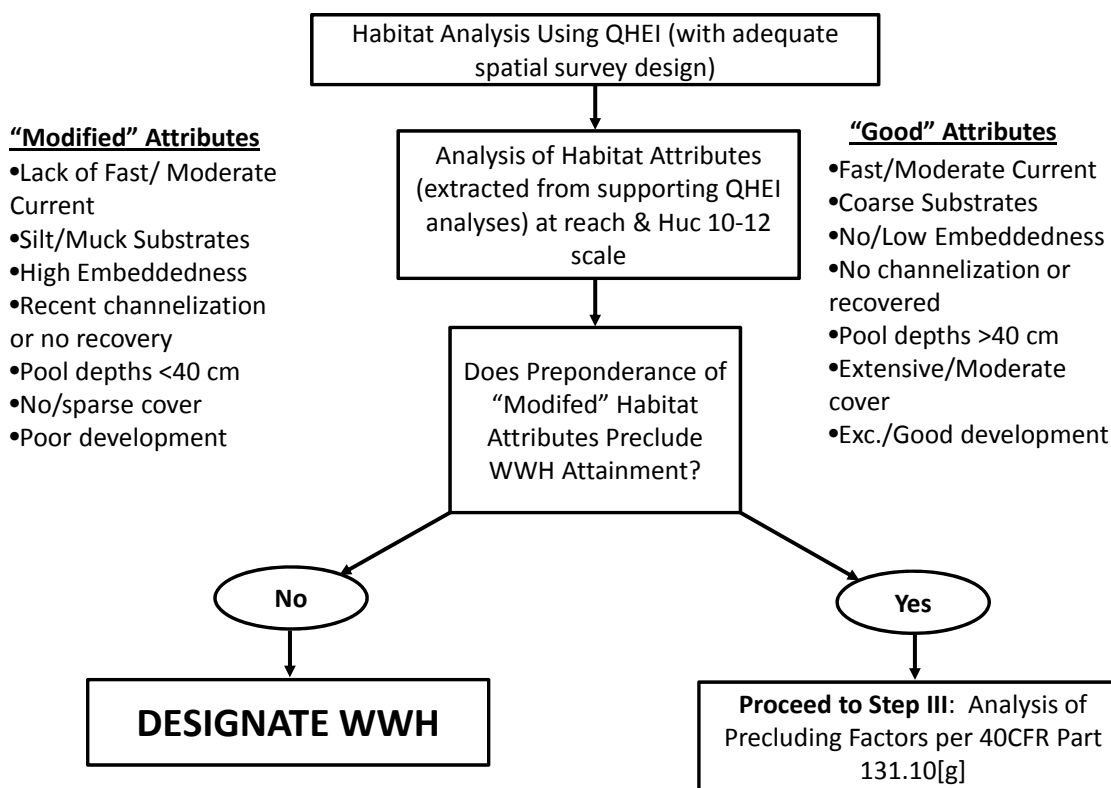


Figure 7. Step II: Using the analysis of habitat attributes to make decisions about WWH use attainability.

attributes provide for a *sufficiently accurate* prediction of WWH attainability. These attributes are expressed as “good” and “poor” attributes (Figure 6) the former being comprised of attributes that accumulate to promote biological attainment and the latter having the opposite effect, i.e., those attributes that deter biological assemblages consistent with WWH attainment. The QHEI thresholds and attributes derived for Ohio (Rankin 1989, 1995) are highlighted in Figure 5. For example, a QHEI score  $\geq 60$  is an indication that WWH is attainable, but a score  $< 45$  indicates that biological attainment of WWH is less likely. Added to these index thresholds are the occurrence and preponderance of good and poor habitat attributes which help sharpen the decision about WWH attainability. Once this information is analyzed on a reach level basis, a decision about WWH attainability in the absence of direct WWH biological attainment can then be made. If the analysis indicates that habitat is not limiting, then WWH is the resulting decision. However, if the analysis indicates that the habitat attributes are insufficient and therefore limiting, then an analysis of the precluding factors consistent with 40CFR Part 131.10[g] is performed (proceed to Step III, Figure 8). This process is formally known as a Use Attainability Analysis (UAA).

A use that is “lower” than what is recognized as consistent with the CWA, i.e., WWH or higher in Ohio, can be assigned provided an acceptable UAA is conducted. A UAA is defined as:

*“... a structured scientific assessment of the factors affecting the attainment of the use which may include physical, chemical, biological, and economic factors as described in §131.10[g].”*

**Process for Using Biological Assessments to Make Use Designation Decisions  
Within a TALU Framework in Ohio: Step III**

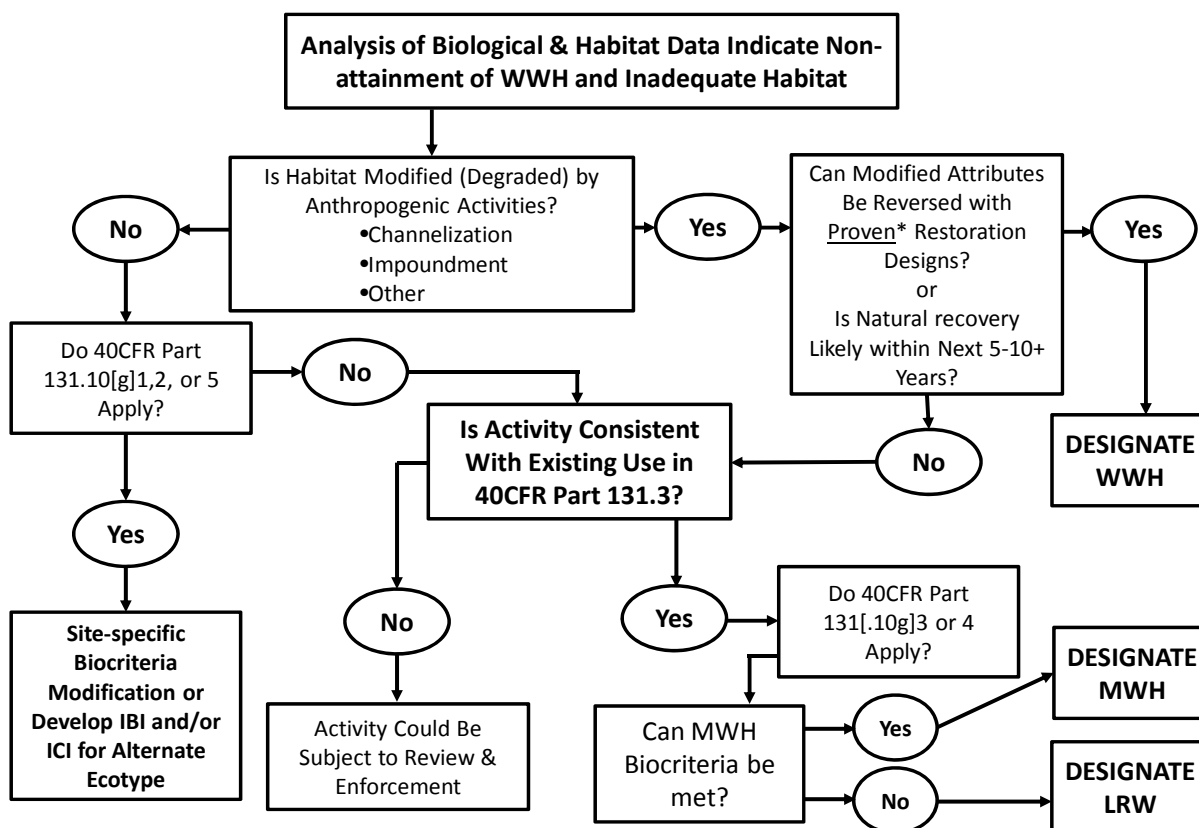


Figure 8. Step III: Overview of the use attainability analysis parts of the use designation process in Ohio.

Those criteria are as follows:

*“40CFR Part 131.10[g]: States may remove a designated use which is not an existing use, as defined in Section 131.3, or establish sub-categories of a use if the State can demonstrate that attaining the designated use is not feasible because:*

1. *Naturally occurring pollutant concentrations prevent the attainment of the use; or*
2. *Natural, ephemeral, intermittent or low flow conditions or water levels prevent the attainment of the use, unless these conditions may be compensated for by the discharge of sufficient volume of effluent discharges without violating State water conservation requirements to enable uses to be met; or*

3. *Human caused conditions or sources of pollution prevent the attainment of the use and cannot be remedied or would cause more environmental damage to correct than to leave in place; or*
4. *Dams, diversions or other types of hydrologic modifications preclude the attainment of the use, and it is not feasible to restore the water body to its original condition or to operate such modification in a way that would result in the attainment of the use; or*
5. *Physical conditions related to the natural features of the water body, such as the lack of a proper substrate, cover, flow, depth, pools, riffles, and the like, unrelated to water quality, preclude attainment of aquatic life protection uses; or*
6. *Controls more stringent than those required by sections 301(b) and 306 of the Act would result in substantial and widespread economic and social impact.”*

The process arrives at this point because the biological assessment revealed non-attainment of the WWH biological criteria and the analysis of habitat attributes showed habitat to be deficient for supporting biological assemblages consistent with WWH. Since it has already been determined that attributes of habitat are insufficient to support WWH, the next task is to determine the “origin” of the deficient habitat, i.e., is it of natural or of anthropogenic (i.e., human activity caused) origin? If it is determined not to be the result of anthropogenic activities, then a determination of whether 40CFR Part 131.10[g][1], [2], or [5] should apply as needed. These are considered to be “natural factors” that could *naturally* preclude attainment of the WWH biological criteria. It would also suggest that either a site-specific modification of the biocriteria is needed or consideration of an alternate ecotype with a distinct biological assessment tool and/or index is needed. If this phenomenon is encountered on a regional or ecotype basis then the latter option is preferred. In all likelihood the stream and river class-specific development of the biological indices by Ohio EPA should have “captured” most of these natural factors, but the process is available should something have been overlooked.

Almost any habitat caused non-attainment of WWH in Ohio will be related to anthropogenic habitat impacts that are either of recent or legacy origins. If this is the case then it next needs to be determined if the habitat alterations can be reversed with *proven* restoration designs or if they are of recent enough origin that they are eligible for an enforcement action. “Proven” refers to restoration designs that have been shown to restore biological assemblage quality consistent with the WWH biological criteria endpoints and supported by an analysis of restored QHEI attributes. Simply assuming that WWH will be attained because a restoration activity has been undertaken is alone insufficient to satisfy this part of Step III. If there are indeed *proven* designs and these are effectively implemented then WWH could be deemed as attainable. If no restoration actions have been taken or are as yet unproven then the remaining parts of 40CFR Part 131.10[g] will need to be considered.

In the MSDGC service area it is expected that the majority of habitat alterations that lead to UAA considerations will most commonly include channelization in support of flood control and other modifications designed to deal with surface runoff in urban settings and possibly also by impoundment of riverine habitats by “run-of-river” low head dams. Each of these has been shown to not only alter habitat such that CWA goals cannot be attained, but also can result in

essentially permanent modifications. This is exemplified in 40CFR Part 131.10[g][3] and [4] in that these modifications are due to human actions that are perpetual in their tenure (e.g., [g][3]) and which represent hydrological modifications that cannot be operated in a manner consistent with the WWH use (e.g., [g][4]). If the actions are consistent with these parts of 40CFR Part 131.10[g] then either MWH or LRW will be designated. The distinction between MWH and LRW is largely based on the attainability of the MWH biological criteria which are less stringent than the WWH use biocriteria.

### **Determining Causal Associations**

Using the results, conclusions, and recommendations of this report requires an understanding of the methodology used to determine biological status (i.e., unimpaired or impaired, narrative ratings of quality) and assigning associated causes and sources of impairment utilizing the accompanying chemical/physical data and source information (e.g., point source loadings, land use). The identification of impairment in rivers and streams is straightforward - the numerical biological indices are the principal arbiter of aquatic life use attainment and impairment following the guidelines of Ohio EPA (1987). The rationale for using the biological results in the role as the principal arbiter within a weight of evidence framework has been extensively discussed elsewhere (Karr *et al.* 1986; Karr 1991; Ohio EPA 1987a,b; Yoder 1989; Yoder 1991; Yoder 1995).

Describing the causes and sources associated with observed biological impairments relies on an interpretation of multiple lines of evidence including water chemistry data, sediment data, habitat data, effluent data, biomonitoring results, land use data, and biological response signatures (Yoder and Rankin 1995; Yoder and DeShon 2003). Thus the assignment of associated causes and sources of biological impairment in this report represents the association of impairments (based on response indicators) with stressor and exposure indicators using linkages to the bioassessment data based on previous experiences with analogous situations and impact types. For example, exceedances of established chemical thresholds such as chronic and acute water quality criteria or sediment effect thresholds can be grounds for listing such categories of parameters and even individual pollutants provided that they co-occur with a biological impairment. The reliability of the identification of associated causes and sources is increased where many such prior associations have been observed. The process is similar to making a medical diagnosis in which a physician relies on multiple lines of evidence concerning patient health. Such diagnoses are based on previous research which experimentally or statistically links symptoms and test results to specific diseases or pathologies. Thus a physician relies on clinical experiences in interpreting symptoms (*i.e.*, test results, multiple lines of evidence) to establish a diagnosis, potential causes and/or sources of the malady, a prognosis, and a strategy for alleviating the symptoms of the disease or condition. As in medical science, where the ultimate arbiter of success is the eventual recovery and well-being of the patient, the ultimate measure of success in water quality management is the restoration of lost or damaged ecosystem attributes including biological assemblage structure and function.



### ***Hierarchy of Water Indicators***

A carefully conceived ambient monitoring approach, using cost-effective indicators comprised of ecological, chemical, and toxicological measures, can ensure that all relevant pollution sources are judged objectively on the basis of environmental results. A tiered approach that links the results of administrative actions with true environmental measures was employed by our analyses. This integrated approach is outlined in Figure 8A and includes a hierarchical continuum from administrative to true environmental indicators. The six “levels” of indicators include:

1. actions taken by regulatory agencies (permitting, enforcement, grants);
2. responses by the regulated community (treatment works, pollution prevention);
3. changes in discharged quantities (pollutant loadings);
4. changes in ambient conditions (water quality, habitat);
5. changes in uptake and/or assimilation (tissue contamination, biomarkers, assimilative capacity); and,
6. changes in health, ecology, or other effects (ecological condition, pathogens).

In this process the results of administrative activities (levels 1 and 2) can be linked to efforts to improve water quality (levels 3, 4, and 5) which should translate into the environmental “results” (level 6). An example is the aggregate effect of billions of dollars spent on water pollution control since the early 1970s that have been determined with quantifiable measures of environmental condition (Yoder et al. 2005).

Superimposed on this hierarchy is the concept of stressor, exposure, and response indicators. *Stressor* indicators generally include activities which have the potential to degrade the aquatic environment such as pollutant discharges (permitted and unpermitted), land use effects, and habitat modifications. *Exposure* indicators are those which measure the effects of stressors and can include whole effluent toxicity tests, tissue residues, and biomarkers, each of which provides evidence of biological exposure to a stressor or bioaccumulative agent.

*Response* indicators are generally composite measures of the cumulative effects of stress and exposure and include the more direct measures of community and population response that are represented here by the biological indices which comprise the Ohio EPA biological endpoints. Other response indicators can include target assemblages, *i.e.*, rare, threatened, endangered, special status, and declining species or bacterial levels that serve as surrogates for the recreational uses. These indicators represent the essential technical elements for watershed-based management approaches. The key, however, is to use the different indicators *within* the roles which are most appropriate for each (Yoder and Rankin 1998).

### ***Causal Associations***

Describing the causes and sources associated with observed impairments revealed by the biological criteria and linking this with pollution sources involves an interpretation of multiple lines of evidence including water chemistry data, sediment data, habitat data, effluent data, biomonitoring results, land use data, and biological response signatures within the biological

data itself. Thus the assignment of principal causes and sources of impairment represents the association of impairments (defined by response indicators) with stressor and exposure indicators. The principal reporting venue for this process on a watershed or subbasin scale is a biological and water quality report. These reports then provide the foundation for aggregated assessments such as the Ohio Integrated Report (303[d] report) and other technical products.

## Completing the Cycle of WQ Management: Assessing and Guiding Management Actions with Integrated Environmental Assessment

### Indicator Levels

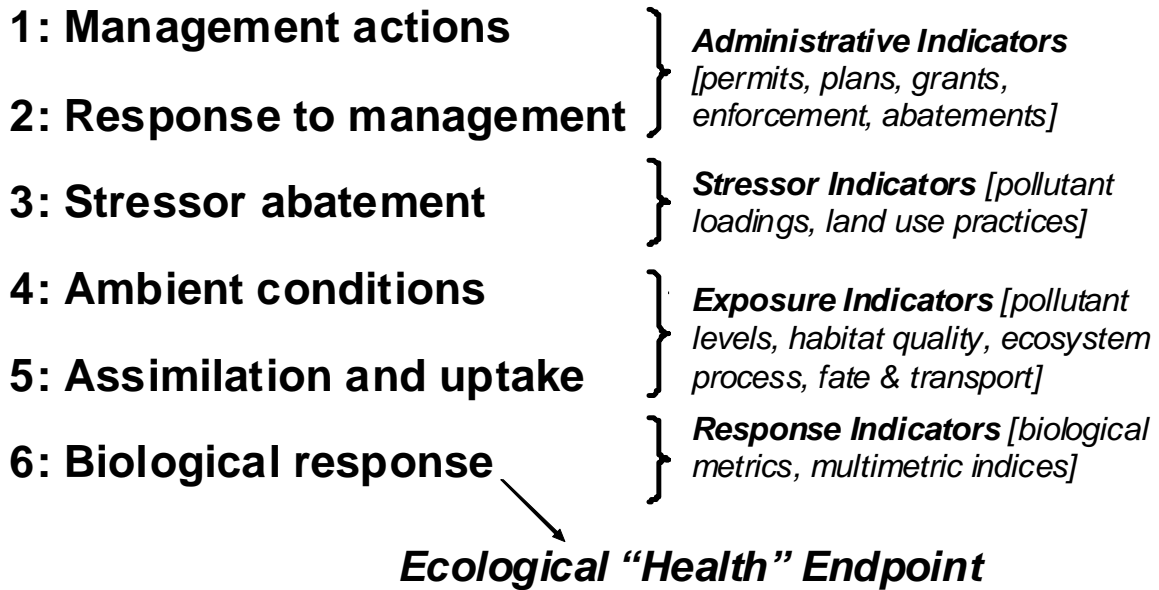


Figure 8A. Hierarchy of administrative and environmental indicators which can be used for water quality management activities such as monitoring and assessment, reporting, and the evaluation of overall program effectiveness. This is patterned after a model developed by U.S. EPA (1995) and further enhanced by Karr and Yoder (2004).

## STUDY AREA DESCRIPTION

### General Setting

The Little Miami River study area lies in southwest Ohio and is generally bounded by the Mill Creek and Great Miami River basins to the northwest, the Whiteoak Creek subbasin to the east, and the Ohio River to the south. The Little Miami River mainstem flows southward for 111 miles from the headwaters in Clark County through Greene, Warren, and Clermont Counties to its confluence with the Ohio River in Hamilton County draining 1757 mi<sup>2</sup>. The study area is located in the Eastern Corn Belt Plains and Interior Plateau ecoregions (see Figure 5). Along its course the stream has an average gradient of 6.35 feet per mile (ODNR 1960). Major tributaries within the 2012 Little Miami River study area include O'Bannon Creek, Polk Run, Sycamore Creek, Dry Creek, Duck Creek, Clough Creek, and the East Fork of the Little Miami River. These tributaries enter the Little Miami River mainstem from the hillsides that characterize the watershed. The upper portion of Little Miami River mainstem located in Warren County is mostly rural, but suburban development has occurred over the past 3 decades. The lower portion of Little Miami River is urban in nature and some tributary subbasins are almost completely developed.

### *Subecoregion Characteristics*

The 2012 Little Miami River study area lies within two different level III ecoregions, the Interior Plateau (IP) and the Eastern Corn Belt Plains (ECBP; Omernik 1987). More recent delineations of Level IV subregions provide more detail for the four components of ecoregions - surficial geology, soils, potential natural vegetation, and land use (Woods et al. 1995). The lower Little Miami River study area and much of the East Fork of the Little Miami River lie entirely within the Northern Bluegrass subregion (71d) of the Interior Plateau. The remainder of the Little Miami River study area lies within the Pre-Wisconsinan Drift Plains subregion (55d) of the Eastern Corn Belt Plains ecoregion. The southernmost portion of the study area overlies the Wisconsinan Drift Plains subregion (55d) and the northern portion and the East Fork of the Little Miami River lies within the Loamy High-lime Till Plains subregion (55b) of the ECBP ecoregion. The characteristics of each subregion appear in Table 8.

### *Description of Pollution Sources and Other Stressors*

Pollution sources and general stressors are numerous in the Little Miami River watersheds subwatersheds. These sources include permitted discharges of municipal and industrial process wastewater, discharges from combined and sanitary sewer overflows (CSO and SSO), runoff and releases from industrial facilities, urban runoff and its associated chemical pollution and hydrological alterations, and direct and indirect habitat alterations. These are described in the following discussions and many are included in Table 9.

### *Point Sources*

There are 23 point source discharges in the Little Miami River study area that hold NPDES permits. Of these 10 are considered to be major discharges and all are municipal wastewater

*Table 8. Level IV subregions of the Little Miami River watersheds watershed and their key attributes (from Woods et al. 1995).*

<b>Level IV Subregion</b>	<b>Physiography</b>	<b>Geology</b>	<b>Soils</b>	<b>Potential Natural Vegetation</b>	<b>Land Use/Land Cover</b>
<b>Loamy, High Lime Till Plains (55b)</b>	Glaciated; level to rolling glacial till plain with low gradient streams; also end moraines and glacial outwash landforms.	Loamy, high lime, late-Wisconsinan glacial till and also glacial outwash and scattered loess overlie Paleozoic carbonates and shale.	Alfisols (Hapludalfs, Epiaqualfs, Endoaqualfs), Mollisols (Argiaquolls, Endoaquolls, Argiudolls), Entisols (Fluvaquents)	Mostly beech forest; also, oak-sugar maple forest, elm-ash swamp forest on poorly-drained valley bottoms and ground moraines.	Extensive corn, soybean, and livestock farming; also scattered beech-maple, pin oak-swamp, white oak woodlands. Urban-industrial activity in municipal areas.
<b>Pre-Wisconsinan Drift Plains (55d)</b>	Glaciated. Dissected glacial till plain with low to medium gradient streams.	Deeply leached, acidic pre-Wisconsinan clay-loam glacial till and thin loess overlie Paleozoic carbonates.	Alfisols (Fragiudalfs, Hapludalfs, Fragiaqualfs, Glossaqualfs), Entisols (Fluvaquents)	Mostly beech forest, elm-ash swamp forest; also oak-sugar maple forest.	Soybean, livestock, corn, general, and tobacco farming; where poorly-drained or rugged, pin oak-swamp, white oak flatwoods, and beech-maple woodlands.
<b>Northern Bluegrass (71d)</b>	Unglaciated and glaciated; dissected plains and hills with medium gradient, gravel bottom streams. Steep slopes, high relief near Ohio River.	Discontinuous loess and leached pre-Wisconsinan glacial till deposits. Ordovician limestone and shale.	Alfisols (Hapludalfs, Fragiudalfs), Mollisols (Hapludolls)	Mixed mesophytic forest, mixed oak forest, oak-sugar maple forest; along Ohio River, bottomland hardwoods.	Mosaic of forest, agriculture, and urban-industrial activity near Cincinnati and elsewhere along Ohio River. Wooded where steep

treatment plants. A total of 54.4 MGD of capacity is shared by the 7 WWTPs that impact the lower Little Miami River mainstem study area. Another 17.4 MGD of capacity is shared by 3 WWTPs on the lower East Fork of the Little Miami River. All of these WWTPs operate at what may be termed “advanced treatment” levels for oxygen demanding substances and ammonia removal, which is typical for WWTPs with permits based on meeting the Ohio WQS. Following the 1998 bioassessment of the Little Miami River in which Ohio EPA found significant impairment of the fish assemblages in particular, upgrades to WWTPs followed and some of these included phosphorus removal, mostly in the upper one-half of the mainstem. The results of the 2007 survey (Ohio EPA 2009) reflected one of the most significant improvements in the status of any major mainstem river in the 30 year history of these surveys by Ohio EPA. To quote the 2009 Ohio EPA report:

*“ . . . the overall turnaround of the Little Miami River’s biotic integrity can be attributed to improved treatment and operations at several Wastewater Treatment Plants (WWTPs) in the watershed. Many facilities that were previously operating at or over capacity since the last survey in 1998 were upgraded, while others began actively removing phosphorus from treated effluent. These improvements, in turn, allowed for the rebound of the fish community, which has historically borne the brunt of impacts from nutrient over-enrichment in the river.”*

The current status of phosphorus removal for the relevant WWTPs assessed by the 2012 survey appears in Table 10.

### **Wet Weather Sources**

Wet weather sources merit description since they are prominent in the Duck Creek subbasin. The two major sources of wet weather related pollution in the 2012 study area emanate from CSOs and SSOs. These occur because the volume of sanitary wastewater and stormwater entering the MSDGC sewer system during precipitation events (i.e., during “wet weather”) exceeds the capacity of the collection system. There are two types of pipes that carry wastewater in Hamilton County, “combined sewers” and “sanitary sewers.” Combined sewers collect and transport both sewage and stormwater, while sanitary sewers collect and transport only sewage. Wastewater discharges that are released to the environment from sanitary sewer systems before they reach a treatment plant are known as “sanitary sewer overflows,” or SSOs. The term SSO can also refer to a sanitary sewer overflow structure or outfall. Discharges that escape the system before reaching a treatment plant are known as “combined sewer overflows,” or CSOs. Approximately one-third of MSDGC’s sewers are CSOs and the rest are sanitary sewers (MSDGC 2006).

In the MSDGC collection system, the primary cause of SSOs is a lack of system capacity. This happens when the sewer system receives increased flows as a result of “infiltration and inflow,” or I/I, which is the entry into the sewer system of “clean” rain water through leaks in the system caused by deteriorating pipes and tree roots growing into the sewers (“infiltration”), as well as through roof drains, manhole covers and yard drains (“inflow”), thus exacerbating the lack of capacity. As a result, during periods of rainfall or snowmelt, wastewater is frequently discharged from overflow structures into area rivers and streams. The MSDGC system has approximately 80 such overflow points, which discharge wastewater when the pipes become too full. These SSO structures were constructed many years ago, consistent with the then-acceptable approach for addressing overloaded sanitary sewer systems. In contrast, a combined sewer system is designed to transport both sewage and storm water. These systems are largely an “artifact” of an earlier way of building sewers and have not been newly constructed in the United States for decades. Combined sewers are generally not designed to be big enough to carry wastewater plus all of the rainfall from the area’s larger storms. Thus, combined sewers are designed to discharge from combined sewer overflow points, or “CSOs.” MSDGC has approximately 200 CSO discharge points in its collection system (MSDGC 2006).

Table 9. Major pollution sources in the 2012 Little Miami River study area.

Receiving Stream	Length (Miles)	Gradient (ft/mi)	Drainage Area (mi <sup>2</sup> )	River Mile	Site Code/RM	Facility Name/Description	NPDES Permit No.
O'Bannon Creek	12	24	59.1	2.57	LM37/ 1.8	O'Bannon Creek Regional WWTP	1PK00017
Polk Run	5.5	62	10.2	0.1		Polk Run WWTP	1PK00019
Sycamore Creek	2.6	17.7	6.86	0.26	LM53/ 0.1	Sycamore Creek WWTP	1PK00005
East Fork Little Miami	81.7	7.6	499	20.5	LM25/ 19.5	US DOA William H Harsha Lake	1PN00000
East Fork Little Miami				13.5	LM28/ 13.2	City of Batavia WWTP	1PB00001
East Fork Little Miami				12.6	LM29/ 11.0	Clermont Co. Middle East Fork Regional WWTP	1PK00010
East Fork Little Miami				4.9	LM32/ 4.3	Clermont Co. Lower East Fork Regional WWTP	1PK00009
East Fork Little Miami				4.9	LM32/ 4.3	USEPA Experimental Stream Facility	1IN00116
East Fork Little Miami				1.6	LM35/ 1.0	Milford WWTP	1PC00005
Duck Creek	8.2	27.6	15.5	5.14	LM72/ 4.6	CSOs: 054, 135, 170, 187, 214, 500, 501, 549, 550, 551, 552, 553	
Duck Creek				4.5	LM73/ 4.4	CSOs: 043, 061	
Duck Creek				3.98		CSOs: 064, 066, 068, 188, 205, 554, 555, 556	
Duck Creek				3.38	LM75/ 3.3	CSOs: 080, 136	
Duck Creek				2.4	LM77/ 1.8	CSOs: 083, 084, 199, 503, Little Duck Creek	
Little Duck Creek				1.9		CSO 071	
Little Duck Creek				1.7		CSOs: 069, 072, 074, 075, 076	
Little Duck Creek				1.15		CSOs: 078, 079	
Clough Creek	5.7	67.9	8.31	2.5	LM97/ 1.2	CSO 182	
Little Miami	105.5	6.5	1757	32.1		Lebanon WWTP	1PC00003
Little Miami				31.95		Mason WWTP	1PC00004
Little Miami				30.7		Deerfield-Hamilton WTP	1Y00162
Little Miami				28.14		Lower Little Miami WWTP	1PK00018
Little Miami				21	LM05/ 21.25	Arrowhead Park WWTP	1PH00014
Little Miami				18.8	LM07/ 18.4	Lake Remington MHP	1PV00101
Little Miami				16.8		MGS Water Sub District	1IX00030
Little Miami				16.1		Wards Corner Regional WWTP	1PK00021
Little Miami				14.2		Village of Indian Hill WWTP	1IX00050
Little Miami				13.3	LM09/ 12.9	Milford Waterworks	1IW00110
Little Miami				10	LM12/ 8.3	Evans Landscaping Inc	1IN00298
Little Miami				5.9	LM14/ 6.0	Cincinnati Steel Treating Co; Keebler and Co	1IN00237; 1IH00022
Little Miami				4.45	LM15/ 4.3	CSO 656	
Little Miami				3.5	LM16/ 3.0	CSOs: 085, 086, 470, 471, 476, Duck Creek	
Little Miami				0.8		Richard Miller WWTP	1IV00040

Table 10. Phosphorus removal treatment and facility status at significant WWTP discharges to the Little Miami River mainstem.

WWTP Facilities	LMR River Mile	Phos. Removal Status	Phos. Removal Date	Avg. Design Flow (mgd)	Recent Expansion (last 10 yrs.)	Recent Expansion Date
<b>Upper LMR</b>						
Xenia - Ford Rd	77.03	Biological	1999	3.6	No	1999
Beaver Creek (Green Co.)	72.74	Yes*	2013	8.5	Yes	2006
Eastern Regional (Montgomery Co.)	72.74	Chemical	2005	13.0	No	1993
Sugar Creek (Green Co.)	64.43	Biological	2009	9.9	Yes	2009
Xenia - Glady Run	63.72	Biological	1999	4.0	No	1999
Waynesville (minor)	53.77	Chemical	2008	0.71	No	2002
<b>Lower LMR</b>						
Lebanon	32.10	No	--	6.0	Yes	2003
Mason #2 (new in 2006)	31.95	Biological	2006	13.0	Yes	2006
Lower Little Miami (Warren Co.)	28.14	Yes*	2013	12.0	Yes	2012
O'Bannon Creek (Clermont Co.)	24.00	No	Poss. 2015	4.4	No	2001
Polk Run (Hamilton Co.)	21.80	No	Poss. 2015	8.0	No	2001
Sycamore Creek (Hamilton Co.)	19.22	Biological	2010	9.0	Yes	2010
Wards Corner (minor) Clermont Co.	16.10	Chemical**	2009	2.0	New	2009
<b>East Fork LMR</b>						
Middle East Fork (Clermont Co.)	11.5 (12.6)	No	Poss. 2015	7.2	No	?
Lower East Fork (Clermont Co.)	11.5 (4.9)	No	Poss. 2015	9.0	Yes	2006
Milford	11.5 (1.61)	No	--	1.2	Yes	2007

\* Specific P removal processes were not determined. \*\*The Wards Corner Regional WWTP was designed to meet final effluent limits for total P of 1.0 mg/l (30 day average) and 1.5 mg/l (7 day average) via biological treatment at 2.0 MGD. This plant is currently <5 % of design capacity and is not able to meet effluent limits for total P thru biological removal processes. Clermont Co. is currently using chemical addition and supplemental sludge handling to meet effluent limits for total P (Source: NPDES Permit Fact Sheet).

To remedy SSOs and CSOs, the County and City signed Consent Decrees in 2002 and 2003 with U.S. EPA, Ohio EPA, and ORSANCO that establish a judicially enforceable framework for ensuring that MSDGC develops and implements sophisticated, long-term plans for remedying the overflows resulting from the aging sewer system. The decrees also require MSDGC to implement millions of dollars of interim measures to ameliorate these problems while developing and implementing the long-term remedial measures.



## RESULTS and DISCUSSION

### Chemical/Physical Water Quality

Chemical/physical water quality in the Little Miami River study area was characterized by data collected via grab samples from the water column at all wetted sites, continuous measurements over 3-4 consecutive day periods at selected mainstem, tributary, and reference sites, and by sediment chemistry from samples collected at all mainstem, selected tributaries, and all reference sites once in October. The results were evaluated by assessing exceedances of criteria in the Ohio WQS, by exceedances of regional reference thresholds for nutrient and “urban” parameters, and by exceedances of probable effect levels for sediment chemistry (MacDonald et al. 2000). As such, the chemical/physical data herein serves as an indicator of exposure and stress and in support of the biological data for assessing the attainment of designated aquatic life uses and to assist in assigning associated causes and sources. In addition, the discussion of the results is organized by Ohio EPA Waterbody Assessment Units (WAU; Ohio EPA 2010). Bacteria data were collected by grab samples at all sites and were used primarily to determine the status of recreational uses in accordance with the Ohio WQS. Ohio EPA protocols for determining attainment of the applicable designated recreational use tier were followed.

#### ***Flow Regime***

The flow regime in the Little Miami and East Fork Little Miami River mainstems during the period June 1 – September 30 is depicted in Figure 9 based on flow gauges operated by the U.S. Geological Survey. What are referred to herein as normal summer-fall flows are approximated by the statistical median flows that vary somewhat throughout this time period. Actual flows in 2012 were consistently lower than the medians and were at or below the 80% duration flow. The mainstem Little Miami River flows were at or below the Q7,10 flow in September. The 2012 flow regime was generally comparable to 2007 and much lower than flows in 1998. All sampling was avoided during these high flow events and was not resumed until normal base flows returned.

#### ***Water Column Chemistry – Grab Sampling***

Water quality was assessed by grab samples collected at predetermined locations in the water column and at graduated frequencies at all sites in the Little Miami River study area. Parameter groupings included field, demand, ionic strength, nutrients, heavy metals, and organic compounds. Continuous measurements over 3-4 consecutive day periods were made at selected mainstem, tributary, and reference sites for D.O. (mg/l), pH (S.U.), conductivity ( $\mu\text{S}/\text{cm}$ ), and temperature ( $^{\circ}\text{C}$ ) using YSI Datasonde continuous recorders.

This section focuses on key chemical stressors and their concentrations in each of the Little Miami River study area WAUs. Commonly collected chemical parameters were compared either to criteria in the Ohio WQS (Table 11A) or to ecoregion-based benchmarks and biologically derived thresholds in Ohio EPA (1999) for nutrients (Table 11B) and chemical

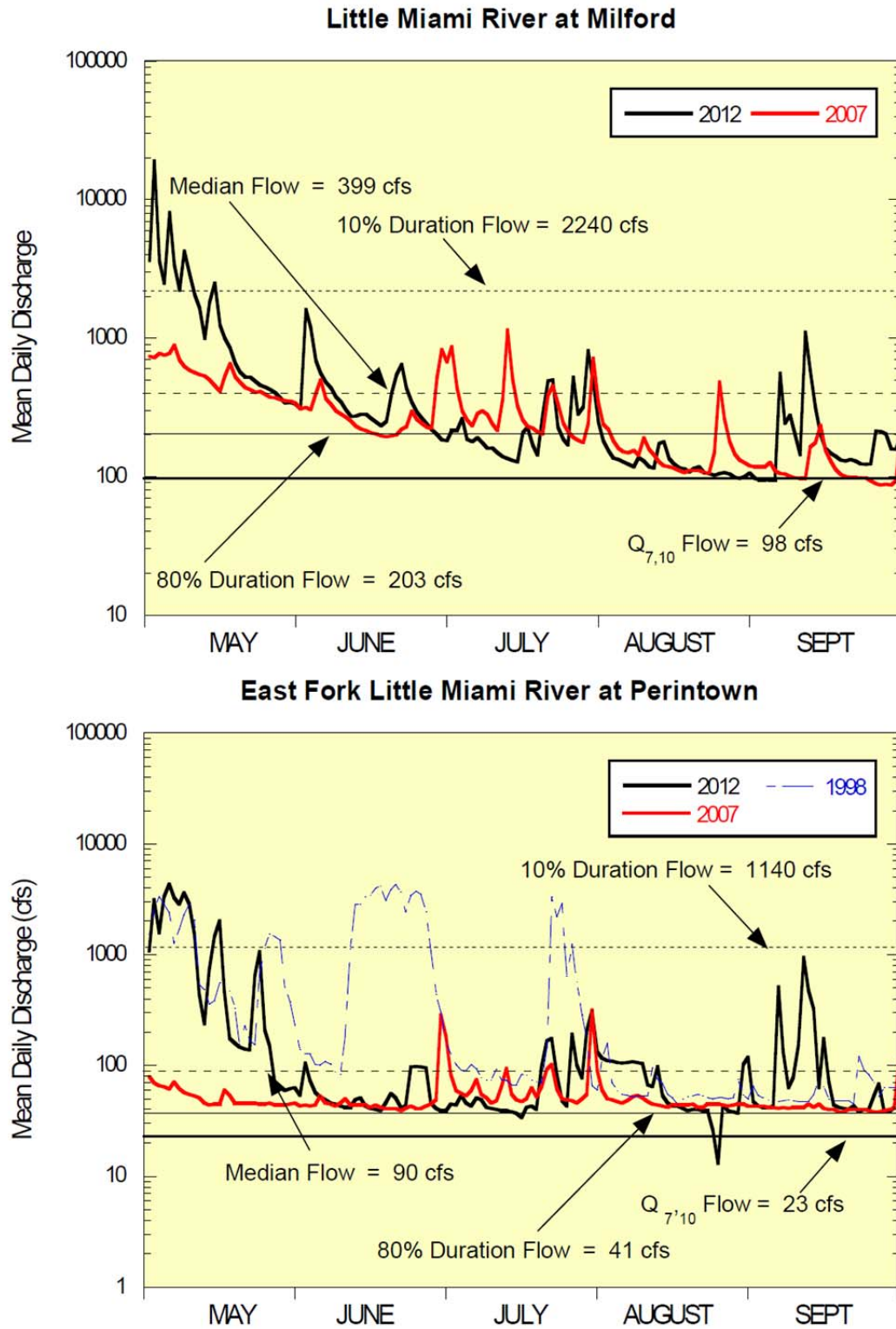


Figure 9. Daily flow measured by the USGS in the Little Miami River at Milford (RM 13.0) and the East Fork Little Miami River at Perintown (RM 6.4) during May 1-September 30, 1998, 2007, and 2012.

<i>Table 11A. Conventional pollutant parameters in the Little Miami River study area during 2012 that exceeded Ohio water quality criteria for aquatic life.</i>			
<b>Site ID</b>	<b>River Mile</b>	<b>Aquatic Life Use</b>	<b>Parameters (Values) Exceeding Ohio Aquatic Life Criteria<sup>1</sup></b>
<b>LRAU 90-02 – Little Miami River</b>			
<b>11-001 – Little Miami River</b>			
LM01	28.00	EWB	Pb (27.70)
LM02	24.90	EWB	Pb (15.60)
LM03	22.80	EWB	None
LM04 <sup>a</sup>	21.80	EWB	D.O. (5.62);
LM05	21.45	EWB	None
LM06	20.60	EWB	None
LM07	18.60	EWB	D.O. (4.65), (5.74), (5.18), (4.71); T.Amm (1.232)
LM08	17.60	EWB	None
LM09	13.20	EWB	D.O. (5.92); T.Amm (9.903)
LM10	12.40	EWB	D.O. (5.53), (5.30), (4.70); Pb (12.40);
LM11	10.90	EWB	D.O. (5.58); Pb (15.60)
LM12	8.00	EWB	D.O. (5.25), (5.86), (5.94)
LM13	7.30	EWB	Pb (14.00)
LM14	6.00	EWB	D.O. (5.84), (5.40)
LM15	4.30	EWB	Pb (16.30)
LM16	3.50	WWH	Temp C (29.6); Pb (18.70)
LM17	1.40	WWH	None
<b>[11-047] - Unnamed Trib to Little Miami River at RM 0.83</b>			
LM103	0.20	WWH	None
<b>[11-066] - Unnamed Trib to Little Miami River at RM 13.1</b>			
LM21	1.50	WWH	Pb (14.70)
<b>[11-067] - Unnamed Trib to Little Miami River at RM 7.75</b>			
LM20	1.20	PHW3A	None
<b>[11-068] - Unnamed Trib (RM 2.7) to Unnamed Trib to Little Miami River (RM13.1)</b>			
LM19	0.50	PHW3A	None
<b>[11-081] - Unnamed Trib to Little Miami River at 13.8</b>			
LM22	0.00	PHW2	None
<b>[11-082] - Unnamed Trib to Little Miami River at 24.06</b>			
LM23	0.20	PHW2	None
<b>WAU 09-02 – O’Bannon Creek</b>			
<b>[11-010] - O’Bannon Creek (LMR RM 24.06)</b>			
LM37	1.90	WWH	Pb (20.90)
LM38	0.10	WWH	Pb (21.00)
<b>WAU 14-02 – Polk Run</b>			
<b>[11-009] - Polk Run (LMR RM 21.54)</b>			
LM46	3.90	WWH	None
LM39	3.10	WWH	None
LM40	0.30	WWH	None
<b>[11-069] - Unnamed Trib to Polk Run at RM 1.79</b>			
LM41	2.60	WWH	pH (6.44)
LM44	0.40	WWH	None

<i>Table 11A. Conventional pollutant parameters in the Little Miami River study area during 2012 that exceeded Ohio water quality criteria for aquatic life.</i>			
<b>Site ID</b>	<b>River Mile</b>	<b>Aquatic Life Use</b>	<b>Parameters (Values) Exceeding Ohio Aquatic Life Criteria<sup>1</sup></b>
<b>[11-070] - Unnamed Trib to Polk Run at RM 0.70</b>			
LM42	2.00	WWH	None
LM43	0.80	WWH	None
<b>[11-071] - Unnamed Trib (RM 1.77) to Unnamed Trib to Polk Run</b>			
LM45	0.20	WWH	pH (6.39)
<b>WAU 14-01 – Sycamore Creek</b>			
<b>[11-007] - Sycamore Creek (LMR RM 19.2)</b>			
LM47	3.60	WWH	None
LM48	2.40	WWH	None
LM49	1.60	WWH	Pb (23.00)
LM50	1.10	WWH	Cu (17.50)
LM51	0.50	WWH	None
LM52	0.20	WWH	T.Amm (2.685)
<b>[11-008] - North Branch Sycamore Creek</b>			
LM57	5.20	WWH	None
LM62	4.20	PHW3A	None
LM58	3.70	WWH	None
LM59	2.10	WWH	None
LM60	0.50	WWH	None
LM61	0.10	WWH	None
<b>[11-072] - Unnamed Trib to N Branch Sycamore Creek at RM 5.3</b>			
LM65	1.10	PHW2	None
LM54	0.40	PHW2	None
<b>[11-073] - Unnamed Trib to N Branch Sycamore Creek at RM 5.4</b>			
LM63	0.60	WWH	None
<b>[11-074] - Unnamed Trib to N Br Sycamore Cr at RM 0.75</b>			
LM64	1.40	PHW3A	None
<b>[11-049] - Trib To Sycamore Cr. (RM 1.12)</b>			
LM55	1.00	WWH	None
LM56	0.30	WWH	None
LM53	0.10	WWH	None
<b>WAU 13-05 – East Fork Little Miami River</b>			
<b>[11-100] - East Fork Little Miami River (LMR RM 11.5)</b>			
LM25	19.50	EWB	Pb (11.30)
LM26	14.90	EWB	Pb (12.30)
LM27	13.90	EWB	Pb (19.80)
LM28	13.20	EWB	D.O. (5.77), (5.76)
LM29	11.30	EWB	D.O. (5.69), (5.11), (5.23), (5.90), (5.97)
LM30	9.00	EWB	D.O. (5.95); Pb (11.40)
LM31	5.60	EWB	D.O. (5.94); Pb (21.70)
LM32	4.30	EWB	Pb (18.00)
LM34	2.10	EWB	Pb (13.70)
LM35	1.60	EWB	Cu (15.50); Pb (14.30); Pb (15.60)

<i>Table 11A. Conventional pollutant parameters in the Little Miami River study area during 2012 that exceeded Ohio water quality criteria for aquatic life.</i>			
<b>Site ID</b>	<b>River Mile</b>	<b>Aquatic Life Use</b>	<b>Parameters (Values) Exceeding Ohio Aquatic Life Criteria<sup>1</sup></b>
LM36	0.70	EWB	D.O. (5.48), (5.53); Pb (13.60); Pb (18.10)
<b>WAU 14-05 – Dry Run</b>			
<i>[11-005] - Dry Run (LMR RM 7.54)</i>			
LM70	5.70	PHW3A	None
LM66	4.20	WWH	None
LM67	2.50	WWH	None
<i>[11-064] - Trib to Dry Run (4.20)</i>			
LM69	0.20	PHW3A	None
<b>WAU 14-03 – Duck Creek</b>			
<i>[11-004] - Duck Creek (LMR RM 3.87)</i>			
LM71	6.00	LRW	None
LM78	5.30	LRW	Cu (37.80), (37.80); Cu (76.10); Cu (180.00) ; Cu (59.70), ; Cu (46.10); Cu (35.00),
LM72	4.70	LRW	None
LM73	4.40	LRW	Temp C (31.8); Cu (19.00)
LM75	3.30	LRW	Pb (33.30)
LM76	2.90	WWH	D.O. (0.48); Cu (20.90); Pb (30.20)
LM77	1.80	WWH	None
LM91	1.00	WWH	None
LM79	0.90	WWH	D.O. (3.81), (3.20)
LM74	0.20	WWH	None
<i>[11-051] - East Fork Duck Creek</i>			
LM85	1.90	WWH	None
LM84	0.60	WWH	None
<i>[11-075] - Unnamed Trib to Duck Creek at RM 4.8</i>			
LM80	0.20	LRW	None
<i>[11-076] - Little Duck Creek</i>			
LM86	2.70	PHW3A	None
LM87	2.60	PHW3A	Pb (41.70)
LM90	2.40	PHW3A	Pb (25.00)
LM88	1.80	PHW2A	None
LM89	1.40	MWH	None
LM92	0.20	WWH	D.O. (2.39), (3.80)
<i>[11-077]- Unnamed Trib to Little Duck Creek at RM 4.42</i>			
LM82	0.10	WWH	None
<b>WAU 14-06 Clough Creek</b>			
<i>[11-002] - Clough Creek (LMR RM 3.36)</i>			
LM99	4.60	PHW3A	None
LM95	3.20	WWH	None
LM96	3.10	WWH	None
LM97	1.20	WWH	None
LM98	0.60	WWH	D.O. (3.75); Pb (16.90)

<i>Table 11A. Conventional pollutant parameters in the Little Miami River study area during 2012 that exceeded Ohio water quality criteria for aquatic life.</i>			
<b>Site ID</b>	<b>River Mile</b>	<b>Aquatic Life Use</b>	<b>Parameters (Values) Exceeding Ohio Aquatic Life Criteria<sup>1</sup></b>
<b><i>[11-003] - McCullough Run (LMR RM 3.7)</i></b>			
LM94	1.30	WWH	None
<b><i>11-078 - Unnamed Trib to McCullough Run at RM 1.08</i></b>			
LM93	1.60	WWH	None
<b><i>[11-079] - Trib to Unnamed Trib to Clough Creek at RM3.06</i></b>			
LM101	1.10	WWH	None
<b><i>[11-080] - UT at RM 0.66 to UT to Clough Creek at RM 3.06</i></b>			
LM102	0.60	PHW2	None
<b><i>[11-081] - UT at RM 0.95 to UT to Clough Creek at RM 3.06</i></b>			
LM100	0.20	WWH	None
<b>WAU 12-08 Five Mile Creek – Ohio River</b>			
<b><i>[10-001] - Five Mile Creek</i></b>			
LM107	2.90	WWH	None
LM108	0.20	WWH	None
<b><i>10-002 - Eight Mile Creek</i></b>			
LM105	2.10	PHW3A	None
<b><i>[10-130] - Trib to Eight Mile Creek at RM 1.01</i></b>			
LM106	0.10	PHW3A	None
<b><i>[10-537] - Four Mile Creek</i></b>			
LM104	0.90	WWH	T.Amm (3.799)
<b>WAU 08-03 Turtle Creek</b>			
<b><i>[11-021] - Turtle Creek</i></b>			
RF08	6.80	WWH	D.O. (2.80), (3.17), (3.55); Pb (30.00)
<b><i>11-022] - Dry Run</i></b>			
RF09	1.80	CWH	None
<b><i>[11-030] - Newman Run</i></b>			
RF10	0.30	EWB	D.O. (3.52), (5.56), (3.38), (3.39), (5.10), (3.60)
<sup>a</sup> - mixing zone sample.			

**Table 11B. Nutrient parameter results in the Little Miami River study area in 2012.**  
*Values >reference targets are shaded in yellow.*

Site ID	River Mile	Aqua- tic Life Use	Ammonia-N (mg/l)		Nitrate-Nitrite-N (mg/l)		Kjeldahl N (mg/l)		Total Phosphorus (mg/l)	
			Med- ian	Tar- get	Med- ian	Tar- get	Med- ian	Tar- get	Med- ian	Tar- get
<b>LRAU 90-02 – Little Miami River</b>										
<b>11-001 – Little Miami River</b>										
LM01	28.00	EWB	0.030	0.050	2.450	2.930	0.630	0.900	0.025	0.350
LM02	24.90	EWB	0.030	0.050	1.610	2.930	0.670	0.900	0.025	0.350
LM03	22.80	EWB	0.030	0.050	1.520	2.930	0.660	0.900	0.025	0.350
LM04 <sup>a</sup>	21.80	EWB	0.030	0.050	9.060	2.930	1.160	0.900	1.100	0.350
LM05	21.45	EWB	0.030	0.050	1.780	2.930	0.660	0.900	0.025	0.350
LM06	20.60	EWB	0.030	0.050	1.910	2.930	0.740	0.900	0.025	0.350
LM07	18.60	EWB	0.030	0.050	2.100	2.930	0.770	0.900	0.025	0.350
LM08	17.60	EWB	0.030	0.050	1.850	2.930	0.730	0.900	0.025	0.350
LM09	13.20	EWB	0.030	0.050	1.930	2.930	0.680	0.900	0.025	0.350
LM10	12.40	EWB	0.030	0.050	1.990	2.930	0.800	0.900	0.025	0.350
LM11	10.90	EWB	0.030	0.050	1.460	2.930	0.710	0.900	0.025	0.350
LM12	8.00	EWB	0.030	0.050	1.740	2.930	0.830	0.900	0.025	0.350
LM13	7.30	EWB	0.030	0.050	1.600	2.930	0.860	0.900	0.025	0.350
LM14	6.00	EWB	0.030	0.050	1.520	2.930	0.770	0.900	0.025	0.350
LM15	4.30	EWB	0.030	0.050	1.530	2.930	0.750	0.900	0.025	0.350
LM16	3.50	WWH	0.030	0.050	1.500	2.930	0.790	0.900	0.025	0.350
LM17	1.40	WWH	0.030	0.050	1.540	2.930	0.870	0.900	0.025	0.350
<b>[11-047] - Unnamed Trib to Little Miami River at RM 0.83</b>										
LM103	0.20	WWH	0.030	0.064	0.250	1.180	0.110	0.500	0.320	0.130
<b>[11-066] - Unnamed Trib to Little Miami River at RM 13.1</b>										
LM21	1.50	WWH	0.030	0.064	1.620	1.180	0.970	0.500	0.025	0.130
<b>[11-067] - Unnamed Trib to Little Miami River at RM 7.75</b>										
LM20	1.20	PHW3A	0.030	0.064	0.770	1.180	0.250	0.500	0.025	0.130
<b>[11-068] - Unnamed Trib (RM 2.7) to Unnamed Trib to Little Miami River (RM13.1)</b>										
LM19	0.50	PHW3A	0.030	0.064	0.250	1.180	0.250	0.500	0.025	0.130
<b>[11-085] - Unnamed Trib to Little Miami River at 13.8</b>										
LM22	0.00	PHW2	0.030	0.064	0.250	1.180	1.110	0.500	0.025	0.130
<b>[11-082] - Unnamed Trib to Little Miami River at 24.06</b>										
LM23	0.20	PHW2	0.030	0.064	0.250	1.180	1.660	0.500	0.025	0.130
<b>WAU 09-02 – O'Bannon Creek</b>										
<b>[11-010] - O'Bannon Creek (LMR RM 24.06)</b>										
LM37	1.90	WWH	0.030	0.053	5.490	0.540	0.250	0.800	0.810	0.150
LM38	0.10	WWH	0.030	0.053	13.600	0.540	0.250	0.800	1.600	0.150
<b>WAU 14-02 – Polk Run</b>										
<b>[11-009] - Polk Run (LMR RM 21.54)</b>										
LM46	3.90	WWH	0.030	0.064	0.250	1.180	0.460	0.500	0.025	0.130
LM39	3.10	WWH	0.030	0.064	0.250	1.180	0.250	0.500	0.025	0.130
LM40	0.30	WWH	0.030	0.064	0.250	1.180	0.250	0.500	0.025	0.130
<b>[11-069] - Unnamed Trib to Polk Run at RM 1.79</b>										
LM41	2.60	WWH	0.030	0.064	0.250	1.180	0.250	0.500	0.025	0.130
LM44	0.40	WWH	0.030	0.064	0.250	1.180	0.250	0.500	0.025	0.130
<b>[11-070] - Unnamed Trib to Polk Run at RM 0.70</b>										
LM42	2.00	WWH	0.030	0.064	0.600	1.180	0.250	0.500	0.025	0.130
LM43	0.80	WWH	0.030	0.064	0.250	1.180	0.250	0.500	0.025	0.130
<b>[11-071] - Unnamed Trib (RM 1.77) to Unnamed Trib to Polk Run</b>										
LM45	0.20	WWH	0.030	0.064	0.250	1.180	0.250	0.500	0.025	0.130

**Table 11B. Nutrient parameter results in the Little Miami River study area in 2012.**  
*Values >reference targets are shaded in yellow.*

Site ID	River Mile	Aqua- tic Life Use	Ammonia-N (mg/l)		Nitrate-Nitrite-N (mg/l)		Kjeldahl N (mg/l)		Total Phosphorus (mg/l)	
			Med- ian	Tar- get	Med- ian	Tar- get	Med- ian	Tar- get	Med- ian	Tar- get
<b>WAU 14-01 – Sycamore Creek</b>										
<i>[11-007] - Sycamore Creek (LMR RM 19.2)</i>										
LM47	3.60	WWH	0.030	0.064	2.170	1.180	0.340	0.500	0.500	0.130
LM48	2.40	WWH	0.030	0.064	0.250	1.180	0.410	0.500	0.260	0.130
LM49	1.60	WWH	0.030	0.064	0.250	1.180	0.370	0.500	0.025	0.130
LM50	1.10	WWH	0.030	0.064	0.250	1.180	0.250	0.500	0.025	0.130
LM51	0.50	WWH	0.030	0.053	0.250	0.540	0.250	0.800	0.025	0.150
LM52	0.20	WWH	0.030	0.053	0.250	0.540	0.580	0.800	0.025	0.150
<i>[11-008] - North Branch Sycamore Creek</i>										
LM57	5.20	WWH	0.030	0.064	0.390	1.180	0.250	0.500	0.025	0.130
LM62	4.20	PHW3A	0.030	0.064	0.250	1.180	0.570	0.500	0.025	0.130
LM58	3.70	WWH	0.030	0.064	0.250	1.180	0.240	0.500	0.025	0.130
LM59	2.10	WWH	0.030	0.064	3.220	1.180	0.250	0.500	0.025	0.130
LM60	0.50	WWH	0.030	0.064	0.250	1.180	0.250	0.500	0.025	0.130
LM61	0.10	WWH	0.030	0.064	3.020	1.180	0.430	0.500	0.025	0.130
<i>[11-072] - Unnamed Trib to N Branch Sycamore Creek at RM 5.3</i>										
LM65	1.10	PHW2	0.030	0.064	0.250	1.180	0.750	0.500	0.025	0.130
LM54	0.40	PHW2	0.030	0.064	0.250	1.180	0.330	0.500	0.025	0.130
<i>[11-073] - Unnamed Trib to N Branch Sycamore Creek at RM 5.4</i>										
LM63	0.60	WWH	0.030	0.064	0.250	1.180	0.610	0.500	0.025	0.130
<i>[11-074] - Unnamed Trib to N Br Sycamore Cr at RM 0.75</i>										
LM64	1.40	PHW3A	0.030	0.064	0.250	1.180	1.100	0.500	0.025	0.130
<i>[11-049] - Trib To Sycamore Cr. (RM 1.12)</i>										
LM55	1.00	WWH	0.030	0.064	0.500	1.180	0.260	0.500	0.025	0.130
LM56	0.30	WWH	0.030	0.064	0.160	1.180	0.380	0.500	0.220	0.130
LM53	0.10	WWH	0.030	0.064	0.250	1.180	0.250	0.500	0.025	0.130
<b>WAU 13-05 – East Fork Little Miami River</b>										
<i>[11-100] - East Fork Little Miami River (LMR RM 11.5)</i>										
LM25	19.50	EWH	0.030	0.126	0.460	0.960	0.610	0.700	0.150	0.330
LM26	14.90	EWH	0.030	0.126	0.250	0.960	0.590	0.700	0.025	0.330
LM27	13.90	EWH	0.030	0.126	0.570	0.960	0.500	0.700	0.025	0.330
LM28	13.20	EWH	0.030	0.126	0.500	0.960	0.580	0.700	0.025	0.330
LM29	11.30	EWH	0.030	0.126	3.080	0.960	0.740	0.700	0.470	0.330
LM30	9.00	EWH	0.030	0.126	2.440	0.960	0.620	0.700	0.025	0.330
LM31	5.60	EWH	0.030	0.126	1.790	0.960	0.640	0.700	0.025	0.330
LM32	4.30	EWH	0.030	0.126	3.370	0.960	0.620	0.700	0.620	0.330
LM34	2.10	EWH	0.030	0.126	3.340	0.960	0.540	0.700	0.620	0.330
LM35	1.60	EWH	0.030	0.126	4.150	0.960	0.450	0.700	0.630	0.330
LM36	0.70	EWH	0.030	0.126	3.360	0.960	0.590	0.700	0.560	0.330
<b>WAU 14-05 – Dry Run</b>										
<i>[11-005] - Dry Run (LMR RM 7.54)</i>										
LM70	5.70	PHW3A	0.030	0.064	1.030	1.180	0.670	0.500	0.025	0.130
LM66	4.20	WWH	0.030	0.064	1.080	1.180	0.280	0.500	0.280	0.130
LM67	2.50	WWH	0.030	0.064	0.380	1.180	0.180	0.500	0.280	0.130
<i>[11-064] - Trib to Dry Run (4.20)</i>										
LM69	0.20	PHW3A	0.030	0.064	0.560	1.180	0.250	0.500	0.025	0.130



**Table 11B. Nutrient parameter results in the Little Miami River study area in 2012.**  
*Values >reference targets are shaded in yellow.*

Site ID	River Mile	Aqua- tic Life Use	Ammonia-N (mg/l)		Nitrate-Nitrite-N (mg/l)		Kjeldahl N (mg/l)		Total Phosphorus (mg/l)	
			Med- ian	Tar- get	Med- ian	Tar- get	Med- ian	Tar- get	Med- ian	Tar- get
<b>WAU 14-06 – Duck Creek</b>										
<i>[11-004] - Duck Creek (LMR RM 3.87)</i>										
LM71	6.00	LRW	0.030	0.064	1.390	1.180	0.600	0.500	0.025	0.130
LM78	5.30	LRW	0.030	0.064	0.590	1.180	2.980	0.500	0.910	0.130
LM72	4.70	LRW	0.030	0.064	0.250	1.180	0.840	0.500	0.025	0.130
LM73	4.40	LRW	0.030	0.064	0.250	1.180	0.810	0.500	0.025	0.130
LM75	3.30	LRW	0.030	0.064	1.320	1.180	0.610	0.500	0.025	0.130
LM76	2.90	WWH	0.030	0.064	1.250	1.180	0.590	0.500	0.025	0.130
LM77	1.80	WWH	0.030	0.064	0.250	1.180	0.700	0.500	0.025	0.130
LM91	1.00	WWH	0.030	0.064	0.250	1.180	0.410	0.500	0.025	0.130
LM79	0.90	WWH	0.030	0.064	0.250	1.180	0.600	0.500	0.025	0.130
LM74	0.20	WWH	0.030	0.064	0.250	1.180	0.500	0.500	0.025	0.130
<i>[11-051] - East Fork Duck Creek</i>										
LM85	1.90	WWH	0.030	0.064	0.740	1.180	0.250	0.500	0.025	0.130
LM84	0.60	WWH	0.030	0.064	0.250	3.150	0.250	0.500	0.025	0.340
<i>[11-075] - Unnamed Trib to Duck Creek at RM 4.8</i>										
LM80	0.20	LRW	0.030	0.064	0.390	1.180	0.750	0.500	0.025	0.130
<i>[11-076] - Little Duck Creek</i>										
LM86	2.70	WWH	0.030	0.064	0.250	1.180	0.250	0.500	0.025	0.130
LM87	2.60	WWH	0.030	0.064	0.250	1.180	0.250	0.500	0.025	0.130
LM90	2.40	WWH	0.030	0.064	0.250	1.180	0.410	0.500	0.025	0.130
LM88	1.80	WWH	0.030	0.064	0.250	1.180	0.370	0.500	0.025	0.130
LM89	1.40	WWH	0.030	0.064	2.860	1.180	0.830	0.500	0.025	0.340
LM92	0.20	WWH	0.030	0.064	0.250	1.180	1.060	0.500	0.025	0.130
077										
LM82	0.10	PHW3A	0.030	0.064	1.240	1.180	1.060	0.500	0.025	0.130
<b>WAU 14-06 Clough Creek</b>										
<i>[11-002] - Clough Creek (LMR RM 3.36)</i>										
LM99	4.60	PHW3A	0.030	0.064	0.250	1.180	0.250	0.500	0.025	0.130
LM95	3.20	WWH	0.030	0.064	0.250	1.180	0.380	0.500	0.430	0.130
LM96	3.10	WWH	0.030	0.064	5.590	1.180	0.250	0.500	0.025	0.130
LM97	1.20	WWH	0.030	0.064	0.250	1.180	0.250	0.500	0.025	0.130
LM98	0.60	WWH	0.030	0.064	0.250	1.180	0.250	0.500	0.025	0.130
<i>[11-003] - McCullough Run (LMR RM 3.7)</i>										
LM94	1.30	WWH	0.030	0.064	0.630	1.180	0.580	0.500	0.025	0.130
<b>11-078 - Unnamed Trib to McCullough Run at RM 1.08</b>										
LM93	1.60	WWH	0.030	0.064	0.640	1.180	0.470	0.500	0.025	0.130
<i>[11-079] - Trib to Unnamed Trib to Clough Creek at RM3.06</i>										
LM101	1.10	WWH	0.030	0.064	0.250	1.180	0.350	0.500	0.660	0.130
<i>[11-080] - UT at RM 0.66 to UT to Clough Creek at RM 3.06</i>										
LM102	0.60	PHW2	0.030	0.064	0.250	1.180	0.270	0.500	0.350	0.130
<i>[11-081] - UT at RM 0.95 to UT to Clough Creek at RM 3.06</i>										
LM100	0.20	WWH	0.030	0.064	0.250	1.180	0.180	0.500	0.310	0.130
<b>WAU 12-08 Five Mile Creek – Ohio River</b>										
<i>[10-001] - Five Mile Creek</i>										
LM107	2.90	WWH	0.030	0.064	0.250	1.180	0.250	0.500	0.025	0.130
LM108	0.20	WWH	0.030	0.064	0.510	1.180	0.250	0.500	0.025	0.130

*Table 11B. Nutrient parameter results in the Little Miami River study area in 2012. Values >reference targets are shaded in yellow.*

Site ID	River Mile	Aquatic Life Use	Ammonia-N (mg/l)		Nitrate-Nitrite-N (mg/l)		Kjeldahl N (mg/l)		Total Phosphorus (mg/l)	
			Median	Target	Median	Target	Median	Target	Median	Target
<b>10-002 - Eight Mile Creek</b>										
LM105	2.10	PHW3A	0.030	0.064	0.560	1.180	0.400	0.500	0.025	0.130
<b>[10-130] - Trib to Eight Mile Creek at RM 1.01</b>										
LM106	0.10	PHW3A	0.030	0.064	0.250	1.180	0.250	0.500	0.025	0.130
<b>[10-537] - Four Mile Creek</b>										
LM104	0.90	WWH	0.030	0.064	0.250	1.180	0.340	0.500	0.025	0.130
<b>WAU 08-03 Turtle Creek</b>										
<b>[11-021] - Turtle Creek</b>										
RF08	6.80	WWH	0.030	0.053	0.250	0.540	0.250	0.800	0.025	0.150
<b>11-022] - Dry Run</b>										
RF09	1.80	CWH	0.030	0.064	0.250	0.490	0.250	0.500	0.025	0.050
<b>[11-030] - Newman Run</b>										
RF10	0.30	EWB	0.030	0.064	0.250	0.490	0.250	0.500	0.025	0.050
<sup>a</sup> -mixing zone										

stressors that are commonly associated with urban runoff (Table 11C). The biologically derived thresholds relate concentrations to levels associated with attainment of fish IBIs and macroinvertebrate ICIs for appropriate aquatic life uses in Interior Plateau (IP) or Eastern Corn Belt Plains (ECBP) ecoregions (Ohio EPA 1999).

**LRAU – 90-02 –Lower Little Miami River Mainstem**

Seven sites had one or more excursions of the 6 mg/l dissolved oxygen 24-hour average or the 5 mg/l minimum criteria for EWH between RM 18.6 and RM 6.0 (Table 11A). During the 2007 Ohio EPA survey (Ohio EPA 2009) there was a single excursion of the EWH D.O. criterion along a much longer length of the Little Miami River mainstem. Evident in the grab samples (Table 11A, Figure 10) were more excursions below 6.0 and 5.0 mg/L during 2012 compared to Ohio EPA results in 2007.

In addition, the sites at RM 17.6 and upstream had more values with elevated D.O. levels above 12-15 mg/l (Figure 10) compared to 2007 (not pictured, Ohio EPA 2009). Elevated daytime D.O. levels and wide diel swings indicates an indirect effect of nutrient enrichment. TKN is a measure of organic nitrogen and is also an indicator of organic enrichment. The mainstem of the Little Miami River had a number of TKN values that exceeded regional reference levels for large rivers and the frequency of the highest values ( $\geq 2$  mg/l) was higher than they were in 2007 (Figure 11). In addition, 5-day BOD concentrations were elevated above regional reference values (Figure 12) which occurred on the same days with wide diel D.O. swings and elevated TKN concentrations.

Chloride levels were elevated slightly above reference levels for large rivers, but declined below the confluence with the East Fork which carries much lower concentrations of TDS and chlorides than does the Little Miami River thus acting to dilute those values (Table 11C). This

*Table 11C. Urban parameter results in the Little Miami River study area in 2012. Values >reference targets are highlighted in yellow.*

Site ID	River Mile	Aq. Life Use	Conductivity		Chloride		Sulfate		TDS		TSS		T-Cu		T-Pb		T-Zn	
			Med-ian	Tar-get	Med-ian	Tar-get	Med-ian	Target	Med-ian	Target	Med-ian	Target	Med-ian	Target	Med-ian	Targ-et	Med-ian	Target
<b>LRAU 90-02 – Little Miami River</b>																		
<b>11-001 – Little Miami River</b>																		
LM01	28.00	EWB	895	810	125.0	82.0	56.0	170.3	470.0	727.0	16.0	50.0	7.610	5.0	5.82	4.0	12.45	30.0
LM02	24.90	EWB	802.0	810.0	98.5	82.0	47.5	170.3	440.0	727.0	18.0	50.0	6.4	5.0	3.0	4.0	8.460	30.0
LM03	22.80	EWB	781.0	810.0	96.6	82.0	51.0	170.3	430.0	727.0	18.0	50.0	8.0	5.0	3.0	4.0	9.960	30.0
LM04	21.80	EWB	1092	810.0	184.0	82.0	75.5	170.3	590.0	727.0	14.0	50.0	11.9	5.0	4.52	4.0	23.0	30.0
LM05	21.45	EWB	791.0	810.0	95.7	82.0	52.8	170.3	440.0	727.0	16.0	50.0	6.770	5.0	3.0	4.0	9.440	30.0
LM06	20.60	EWB	749.0	810.0	93.6	82.0	50.0	170.3	430.0	727.0	18.0	50.0	6.280	5.0	3.0	4.0	9.0	30.0
LM07	18.60	EWB	825.5	810.0	103.3	82.0	49.5	170.3	425.0	727.0	19.0	50.0	7.540	5.0	3.0	4.0	11.45	30.0
LM08	17.60	EWB	796.0	810.0	99.6	82.0	56.0	170.3	410.0	727.0	22.0	50.0	7.580	5.0	3.0	4.0	11.5	30.0
LM09	13.20	EWB	772.0	810.0	107.0	82.0	50.2	170.3	400.0	727.0	20.0	50.0	8.510	5.0	4.26	4.0	18.4	30.0
LM10	12.40	EWB	746.0	810.0	77.9	82.0	43.2	170.3	360.0	727.0	24.0	50.0	6.740	5.0	3.0	4.0	14.3	30.0
LM11	10.90	EWB	630.0	810.0	76.3	82.0	46.0	170.3	340.0	727.0	22.0	50.0	6.580	5.0	3.0	4.0	8.030	30.0
LM12	8.00	EWB	697.0	810.0	82.7	82.0	46.5	170.3	350.0	727.0	21.0	50.0	6.810	5.0	3.0	4.0	11.950	30.0
LM13	7.30	EWB	702.5	810.0	80.6	82.0	46.8	170.3	380.0	727.0	20.0	50.0	9.1	5.0	3.0	4.0	9.670	30.0
LM14	6.00	EWB	714.0	810.0	80.7	82.0	49.2	170.3	380.0	727.0	22.0	50.0	7.0	5.0	3.83	4.0	13.45	30.0
LM15	4.30	EWB	711.0	810.0	80.3	82.0	46.2	170.3	380.0	727.0	20.0	50.0	7.670	5.0	5.56	4.0	9.810	30.0
LM16	3.50	WWH	714.0	810.0	83.5	82.0	46.2	170.3	370.0	727.0	20.0	50.0	7.260	5.0	4.0	4.0	12.5	30.0
LM17	1.40	WWH	696.0	810.0	83.2	82.0	47.5	170.3	380.0	727.0	26.0	50.0	7.880	5.0	3.0	4.0	9.390	30.0
<b>[11-047] - Unnamed Trib to Little Miami River at RM 0.83</b>																		
LM103	0.20	WWH	541.0	600.0	51.0	35.0	94.5	118.75	440.0	468.0	6.0	25.0	6.740	5.0	3.0	3.0	14.3	15.0
<b>[11-066] - Unnamed Trib to Little Miami River at RM 13.1</b>																		
LM21	1.50	WWH	474.0	600.0	106.0	35.0	57.5	118.75	430.0	468.0	20.0	25.0	7.110	5.0	5.13	3.0	9.560	15.0
<b>[11-067] - Unnamed Trib to Little Miami River at RM 7.75</b>																		
LM20	1.20	PHW3A	459.0	600.0	141.0	35.0	78.5	118.75	560.0	468.0	8.0	25.0	0.0	5.0	7.960	3.0	0.0	15.0
<b>[11-068] - Unnamed Trib (RM 2.7) to Unnamed Trib to Little Miami River (RM13.1)</b>																		
LM19	0.50	PHW3A	520.0	600.0	160.0	35.0	61.5	118.75	510.0	468.0	22.0	25.0	0.0	5.0	7.960	3.0	0.0	15.0
<b>[11-085] - Unnamed Trib to Little Miami River at 13.8</b>																		
LM22	0.00	PHW2	376.0	600.0	59.6	35.0	51.0	118.75	390.0	468.0	10.0	25.0	7.110	5.0	5.31	3.0	9.560	15.0
<b>[11-082] - Unnamed Trib to Little Miami River at 24.06</b>																		
LM23	0.20	PHW2	340.0	600.0	58.8	35.0	62.5	118.75	330.0	468.0	14.0	25.0	7.110	5.0	5.31	3.0	9.560	15.0
<b>WAU 09-02 – O'Bannon Creek</b>																		
<b>[11-010] - O'Bannon Creek (LMR RM 24.06)</b>																		
LM37	1.90	WWH	790.0	610.0	90.1	31.0	69.9	120.0	330.0	522.58	14.0	41.3	11.960	5.0	3.0	3.0	27.850	15.0
LM38	0.10	WWH	847.0	610.0	82.2	31.0	82.0	120.0	410.0	522.58	12.0	41.3	7.920	5.0	3.0	3.0	27.1	15.0

*Table 11C. Urban parameter results in the Little Miami River study area in 2012. Values >reference targets are highlighted in yellow.*

Site ID	River Mile	Aq. Life Use	Conductivity		Chloride		Sulfate		TDS		TSS		T-Cu		T-Pb		T-Zn	
			Median	Target	Median	Target	Median	Target	Median	Target	Median	Target	Median	Target	Median	Target	Median	Target
<b>WAU 14-02 – Polk Run</b>																		
<i>[11-009] - Polk Run (LMR RM 21.54)</i>																		
LM46	3.90	WWH	971.5	600.0	206.5	35.0	80.0	118.75	750.0	468.0	9.0	25.0	7.2	5.0	3.0	3.0	7.2	15.0
LM39	3.10	WWH	939.0	600.0	150.0	35.0	75.5	118.75	510.0	468.0	4.0	25.0	10.4	5.0	7.09	3.0	13.8	15.0
LM40	0.30	WWH	727.0	600.0	106.4	35.0	63.0	118.75	455.0	468.0	7.0	25.0	8.960	5.0	7.40	3.0	43.75	15.0
<i>[11-069] - Unnamed Trib to Polk Run at RM 1.79</i>																		
LM41	2.60	WWH	644.0	600.0	71.6	35.0	64.0	118.75	420.0	468.0	8.0	25.0	8.960	5.0	7.4	3.0	43.75	15.0
LM44	0.40	WWH	587.0	600.0	74.2	35.0	76.0	118.75	350.0	468.0	6.0	25.0	8.960	5.0	7.4	3.0	43.75	15.0
<i>[11-070] - Unnamed Trib to Polk Run at RM 0.70</i>																		
LM42	2.00	WWH	818.0	600.0	129.0	35.0	78.5	118.75	530.0	468.0	42.0	25.0	8.960	5.0	12.050	3.0	43.75	15.0
LM43	0.80	WWH	457.0	600.0	67.3	35.0	46.8	118.75	290.0	468.0	4.0	25.0	8.960	5.0	12.050	3.0	43.75	15.0
<i>[11-071] - Unnamed Trib (RM 1.77) to Unnamed Trib to Polk Run</i>																		
LM45	0.20	WWH	531.0	600.0	89.7	35.0	55.0	118.75	310.0	468.0	14.0	25.0	8.960	5.0	12.050	3.0	43.75	15.0
<b>WAU 14-01 – Sycamore Creek</b>																		
<i>[11-007] - Sycamore Creek (LMR RM 19.2)</i>																		
LM47	3.60	WWH	928.5	600.0	136.5	35.0	52.75	118.75	425.0	468.0	5.0	25.0	6.920	5.0	7.6	3.0	34.45	15.0
LM48	2.40	WWH	835.5	600.0	103.2	35.0	37.35	118.75	395.0	468.0	3.0	25.0	9.2	5.0	6.050	3.0	13.5	15.0
LM49	1.60	WWH	798.0	600.0	103.0	35.0	49.5	118.75	410.0	468.0	8.0	25.0	6.680	5.0	3.0	3.0	11.330	15.0
LM50	1.10	WWH	705.0	600.0	96.5	35.0	52.5	118.75	400.0	468.0	12.0	25.0	8.090	5.0	3.0	3.0	8.940	15.0
LM51	0.50	WWH	712.0	610.0	87.8	31.0	44.8	120.0	340.0	522.58	10.0	41.3	6.390	5.0	3.0	3.0	9.560	15.0
LM52	0.20	WWH	768.0	610.0	125.0	31.0	67.5	120.0	430.0	522.58	6.0	41.3	7.0	5.0	3.0	3.0	36.150	15.0
<i>[11-008] - North Branch Sycamore Creek</i>																		
LM57	5.20	WWH	946.5	600.0	247.5	35.0	90.75	118.75	640.0	468.0	9.0	25.0	7.630	5.0	4.88	3.0	6.890	15.0
LM62	4.20	WWH	736.0	600.0	128.0	35.0	42.2	118.75	350.0	468.0	12.0	25.0	7.630	5.0	5.48	3.0	53.1	15.0
LM58	3.70	WWH	993.0	600.0	218.0	35.0	75.5	118.75	650.0	468.0	13.0	25.0	7.860	5.0	5.85	3.0	8.420	15.0
LM59	2.10	WWH	728.0	600.0	188.0	35.0	53.75	118.75	480.0	468.0	5.5	25.0	8.150	5.0	5.62	3.0	14.150	15.0
LM60	0.50	WWH	646.5	600.0	83.550	35.0	42.150	118.75	415.0	468.0	9.5	25.0	8.4	5.0	3.0	3.0	10.9	15.0
LM61	0.10	WWH	729.0	600.0	160.2	35.0	70.75	118.75	425.0	468.0	23.0	25.0	7.630	5.0	5.48	3.0	53.1	15.0
<i>[11-072] - Unnamed Trib to N Branch Sycamore Creek at RM 5.3</i>																		
LM65	1.10	PHW2	583.0	600.0	278.0	35.0	144.0	118.75	670.0	468.0	10.0	25.0	7.630	5.0	5.48	3.0	53.1	15.0
LM54	0.40	PHW2	684.0	600.0	66.8	35.0	118.0	118.75	390.0	468.0	14.0	25.0	7.0	5.0	3.0	3.0	36.150	15.0
<i>[11-073] - Unnamed Trib to N Branch Sycamore Creek at RM 5.4</i>																		
LM63	0.60	WWH	883.0	600.0	148.0	35.0	128.0	118.75	500.0	468.0	20.0	25.0	7.630	5.0	5.48	3.0	53.1	15.0
<i>[11-074] - Unnamed Trib to N Br Sycamore Cr at RM 0.75</i>																		
LM64	1.40	PHW3A	1200	600.0	38.9	35.0	59.8	118.75	330.0	468.0	66.0	25.0	7.630	5.0	5.48	3.0	53.1	15.0

**Table 11C. Urban parameter results in the Little Miami River study area in 2012. Values >reference targets are highlighted in yellow.**

Site ID	River Mile	Aq. Life Use	Conductivity		Chloride		Sulfate		TDS		TSS		T-Cu		T-Pb		T-Zn	
			Med-ian	Tar-get	Med-ian	Tar-get	Med-ian	Target	Med-ian	Target	Med-ian	Target	Med-ian	Target	Med-ian	Targ-et	Med-ian	Target
<b>[11-049] - Trib To Sycamore Cr. (RM 1.12)</b>																		
LM55	1.00	WWH	869.0	600.0	107.0	35.0	47.2	118.75	410.0	468.0	16.0	25.0	7.0	5.0	3.0	3.0	36.150	15.0
LM56	0.30	WWH	519.0	600.0	67.150	35.0	42.1	118.75	235.0	468.0	7.5	25.0	8.460	5.0	8.75	3.0	11.460	15.0
LM53	0.10	WWH	559.0	600.0	73.0	35.0	48.5	118.75	440.0	468.0	12.0	25.0	7.0	5.0	3.0	3.0	36.150	15.0
<b>WAU 13-05 – East Fork Little Miami River</b>																		
<b>[11-100] - East Fork Little Miami River (LMR RM 11.5)</b>																		
LM25	19.50	EWB	254.0	726.3	14.2	55.0	17.5	115.0	166.0	529.5	2.5	31.0	7.1	5.0	3.0	3.0	7.620	20.0
LM26	14.90	EWB	267.0	726.3	14.7	55.0	21.2	115.0	180.0	529.5	8.0	31.0	5.090	5.0	3.0	3.0	8.390	20.0
LM27	13.90	EWB	275.0	726.3	15.6	55.0	21.7	115.0	176.0	529.5	6.0	31.0	6.180	5.0	3.0	3.0	11.650	20.0
LM28	13.20	EWB	283.0	726.3	16.1	55.0	21.8	115.0	160.0	529.5	10.0	31.0	2.75	5.0	3.0	3.0	6.35	20.0
LM29	11.30	EWB	362.0	726.3	26.1	55.0	28.8	115.0	210.0	529.5	10.0	31.0	6.6	5.0	3.0	3.0	10.5	20.0
LM30	9.00	EWB	359.0	726.3	23.1	55.0	26.8	115.0	210.0	529.5	9.0	31.0	5.830	5.0	3.0	3.0	14.950	20.0
LM31	5.60	EWB	359.0	726.3	24.9	55.0	28.9	115.0	212.0	529.5	12.0	31.0	4.770	5.0	3.0	3.0	10.2	20.0
LM32	4.30	EWB	471.0	726.3	37.4	55.0	37.8	115.0	250.0	529.5	27.0	31.0	6.670	5.0	3.16	3.0	12.3	20.0
LM34	2.10	EWB	477.0	726.3	43.1	55.0	41.5	115.0	230.0	529.5	22.0	31.0	6.99	5.0	3.0	3.0	14.3	20.0
LM35	1.60	EWB	461.0	726.3	43.8	55.0	45.2	115.0	270.0	529.5	20.0	31.0	10.15	5.0	3.0	3.0	15.0	20.0
LM36	0.70	EWB	500.0	726.3	41.1	55.0	36.0	115.0	250.0	529.5	30.0	31.0	7.730	5.0	3.0	3.0	16.1	20.0
<b>WAU 14-05 – Dry Run</b>																		
<b>[11-005] - Dry Run (LMR RM 7.54)</b>																		
LM70	5.70	PHW3A	428.0	600.0	28.3	35.0	44.5	118.75	250.0	468.0	12.0	25.0	6.290	5.0	6.0	3.0	6.0	15.0
LM66	4.20	WWH	533.0	600.0	35.9	35.0	63.5	118.75	300.0	468.0	8.0	25.0	0.0	5.0	5.0	3.0	9.0	15.0
LM67	2.50	WWH	569.5	600.0	47.3	35.0	50.75	118.75	365.0	468.0	8.0	25.0	6.290	5.0	6.0	3.0	6.0	15.0
<b>[11-064] - Trib to Dry Run (4.20)</b>																		
LM69	0.20	PHW3A	763.0	600.0	82.6	35.0	73.5	118.75	340.0	468.0	3.0	25.0	6.290	5.0	6.0	3.0	6.0	15.0
<b>WAU 14-03 – Duck Creek</b>																		
<b>[11-004] - Duck Creek (LMR RM 3.87)</b>																		
LM71	6.00	LRW	1174	600.0	237.5	35.0	128.5	118.75	565.0	468.0	5.5	25.0	6.9	5.0	13.05	3.0	18.650	15.0
LM78	5.30	LRW	1100	600.0	175.0	35.0	114.0	118.75	625.0	468.0	176.0	25.0	41.95	5.0	27.850	3.0	152.0	15.0
LM72	4.70	LRW	1116	600.0	205.5	35.0	144.0	118.75	620.0	468.0	10.5	25.0	8.380	5.0	9.65	3.0	14.0	15.0
LM73	4.40	LRW	1005	600.0	205.0	35.0	116.0	118.75	575.0	468.0	14.0	25.0	8.360	5.0	3.0	3.0	13.030	15.0
LM75	3.30	LRW	1060	600.0	152.5	35.0	123.0	118.75	620.0	468.0	13.0	25.0	9.370	5.0	4.73	3.0	21.3	15.0
LM76	2.90	WWH	1041.	600.0	143.5	35.0	126.5	118.75	625.0	468.0	12.0	25.0	8.870	5.0	4.84	3.0	15.8	15.0
LM77	1.80	WWH	913.5	600.0	139.0	35.0	109.5	118.75	585.0	468.0	10.0	25.0	6.0	5.0	4.93	3.0	10.850	15.0
LM79	0.90	WWH	816.0	600.0	116.0	35.0	85.5	118.75	500.0	468.0	13.0	25.0	9.890	5.0	3.0	3.0	14.8	15.0
LM74	0.20	WWH	1158	600.0	226.0	35.0	116.0	118.75	660.0	468.0	10.0	25.0	9.35	5.0	3.0	3.0	13.9	15.0

*Table 11C. Urban parameter results in the Little Miami River study area in 2012. Values >reference targets are highlighted in yellow.*

Site ID	River Mile	Aq. Life Use	Conductivity		Chloride		Sulfate		TDS		TSS		T-Cu		T-Pb		T-Zn	
			Med-ian	Tar-get	Med-ian	Tar-get	Med-ian	Target	Med-ian	Target	Med-ian	Target	Med-ian	Target	Med-ian	Targ-et	Med-ian	Target
<b>[11-051] - East Fork Duck Creek</b>																		
LM85	1.90	WWH	981.0	600.0	153.0	35.0	137.0	118.75	650.0	468.0	4.0	25.0	4.890	5.0	15.7	3.0	17.2	15.0
LM84	0.60	MWH	1304	600.0	290.0	0.340	114.0	118.75	730.0	468.0	11.0	25.0	3.570	5.0	28.9	3.0	19.8	15.0
<b>[11-075] - Unnamed Trib to Duck Creek at RM 4.8</b>																		
LM80	0.20	LRW	1341	600.0	282.2	35.0	85.7	118.75	770.0	468.0	11.5	25.0	10.1	5.0	14.5	3.0	22.150	15.0
<b>[11-076] - Little Duck Creek</b>																		
LM86	2.70	WWH	750.0	600.0	76.2	35.0	80.0	118.75	510.0	468.0	4.0	25.0	6.730	5.0	17.7	3.0	20.7	15.0
LM87	2.60	WWH	744.0	600.0	78.5	35.0	83.0	118.75	500.0	468.0	4.0	25.0	6.480	5.0	41.7	3.0	15.3	15.0
LM90	2.40	WWH	786.5	600.0	76.8	35.0	82.3	118.75	440.0	468.0	18.0	25.0	7.910	5.0	14.0	3.0	11.550	15.0
LM88	1.80	WWH	686.5	600.0	75.150	35.0	48.65	118.75	435.0	468.0	7.0	25.0	7.730	5.0	13.35	3.0	11.850	15.0
LM89	1.40	WWH	556.5	600.0	57.45	35.0	50.5	118.75	320.0	468.0	10.0	25.0	6.75	5.0	11.4	3.0	19.5	15.0
LM92	0.20	WWH	399.5	600.0	31.4	35.0	27.3	118.75	170.0	468.0	32.0	25.0	0.0	5.0	8.45	3.0	8.930	15.0
<b>WAU 14-06 Clough Creek</b>																		
<b>[11-002] - Clough Creek (LMR RM 3.36)</b>																		
LM99	4.60	PHW3A	872.0	600.0	96.4	35.0	56.0	118.75	460.0	468.0	10.0	25.0	8.99	5.0	3.0	3.0	0.0	15.0
LM95	3.20	WWH	811.0	600.0	100.45	35.0	66.15	118.75	470.0	468.0	9.0	25.0	4.930	5.0	12.3	3.0	16.1	15.0
LM96	3.10	WWH	695.0	600.0	86.3	35.0	62.8	118.75	390.0	468.0	6.0	25.0	0.0	5.0	3.0	3.0	0.0	15.0
LM97	1.20	WWH	704.0	600.0	87.5	35.0	67.5	118.75	350.0	468.0	8.0	25.0	7.75	5.0	11.3	3.0	10.2	15.0
LM98	0.60	WWH	639.0	600.0	77.5	35.0	70.0	118.75	310.0	468.0	2.0	25.0	7.560	5.0	13.1	3.0	11.470	15.0
<b>[11-003] - McCullough Run (LMR RM 3.7)</b>																		
LM94	1.30	WWH	755.0	600.0	107.0	35.0	39.2	118.75	460.0	468.0	8.0	25.0	0.0	5.0	8.45	3.0	8.930	15.0
<b>11-078 - Unnamed Trib to McCullough Run at RM 1.08</b>																		
LM93	1.60	WWH	415.0	600.0	27.3	35.0	38.0	118.75	280.0	468.0	94.0	25.0	0.0	5.0	8.45	3.0	8.930	15.0
<b>[11-079] - Trib to Unnamed Trib to Clough Creek at RM3.06</b>																		
LM101	1.10	WWH	760.0	600.0	83.6	35.0	58.5	118.75	490.0	468.0	14.0	25.0	6.740	5.0	3.0	3.0	14.3	15.0
<b>[11-080] - UT at RM 0.66 to UT to Clough Creek at RM 3.06</b>																		
LM102	0.60	PHW2	962.0	600.0	111.0	35.0	74.8	118.75	590.0	468.0	14.0	25.0	6.740	5.0	3.0	3.0	14.3	15.0
<b>[11-081] - UT at RM 0.95 to UT to Clough Creek at RM 3.06</b>																		
LM100	0.20	WWH	641.0	600.0	78.3	35.0	52.2	118.75	440.0	468.0	10.0	25.0	6.740	5.0	3.0	3.0	14.3	15.0
<b>WAU 12-08 Five Mile Creek – Ohio River</b>																		
<b>[10-001] - Five Mile Creek</b>																		
LM107	2.90	WWH	1015	600.0	160.0	35.0	78.0	118.75	570.0	468.0	2.0	25.0	0.0	5.0	3.0	3.0	0.0	15.0
LM108	0.20	WWH	531.0	600.0	52.95	35.0	52.45	118.75	340.0	468.0	10.0	25.0	7.920	5.0	6.68	3.0	8.890	15.0
<b>10-002 - Eight Mile Creek</b>																		
LM105	2.10	PHW3A	828.0	600.0	113.5	35.0	67.0	118.75	440.0	468.0	6.0	25.0	7.660	5.0	3.0	3.0	10.150	15.0

*Table 11C. Urban parameter results in the Little Miami River study area in 2012. Values >reference targets are highlighted in yellow.*

Site ID	River Mile	Aq. Life Use	Conductivity		Chloride		Sulfate		TDS		TSS		T-Cu		T-Pb		T-Zn	
			Med-ian	Tar-get	Med-ian	Tar-get	Med-ian	Target	Med-ian	Target	Med-ian	Target	Med-ian	Target	Med-ian	Targ-et	Med-ian	Target
<b>[10-130] - Trib to Eight Mile Creek at RM 1.01</b>																		
LM106	0.10	PHW3A	347.0	600.0	66.1	35.0	73.2	118.75	390.0	468.0	6.0	25.0	7.660	5.0	13.2	3.0	10.150	15.0
<b>[10-537] - Four Mile Creek</b>																		
LM104	0.90	WWH	682.0	600.0	64.95	35.0	65.0	118.75	305.0	468.0	31.0	25.0	7.480	5.0	6.8	3.0	8.8	15.0
<b>WAU 08-03 Turtle Creek</b>																		
<b>[11-021] - Turtle Creek</b>																		
RF08	6.80	WWH	607.0	610.0	60.55	31.0	45.0	120.0	310.0	522.58	7.5	41.3	7.99	5.0	3.0	3.0	8.220	15.0
<b>11-022] - Dry Run</b>																		
RF09	1.80	CWH	759.0	600.0	44.3	31	38.5	118.75	380.0	468.0	6.0	25.0	6.9	5.0	6.16	3.0	11.8	15.0
<b>[11-030] - Newman Run</b>																		
RF10	0.30	EWH	625.0	600.0	23.0	31	31.2	118.75	350.0	468.0	4.0	25.0	6.490	5.0	5.0	3.0	11.7	15.0

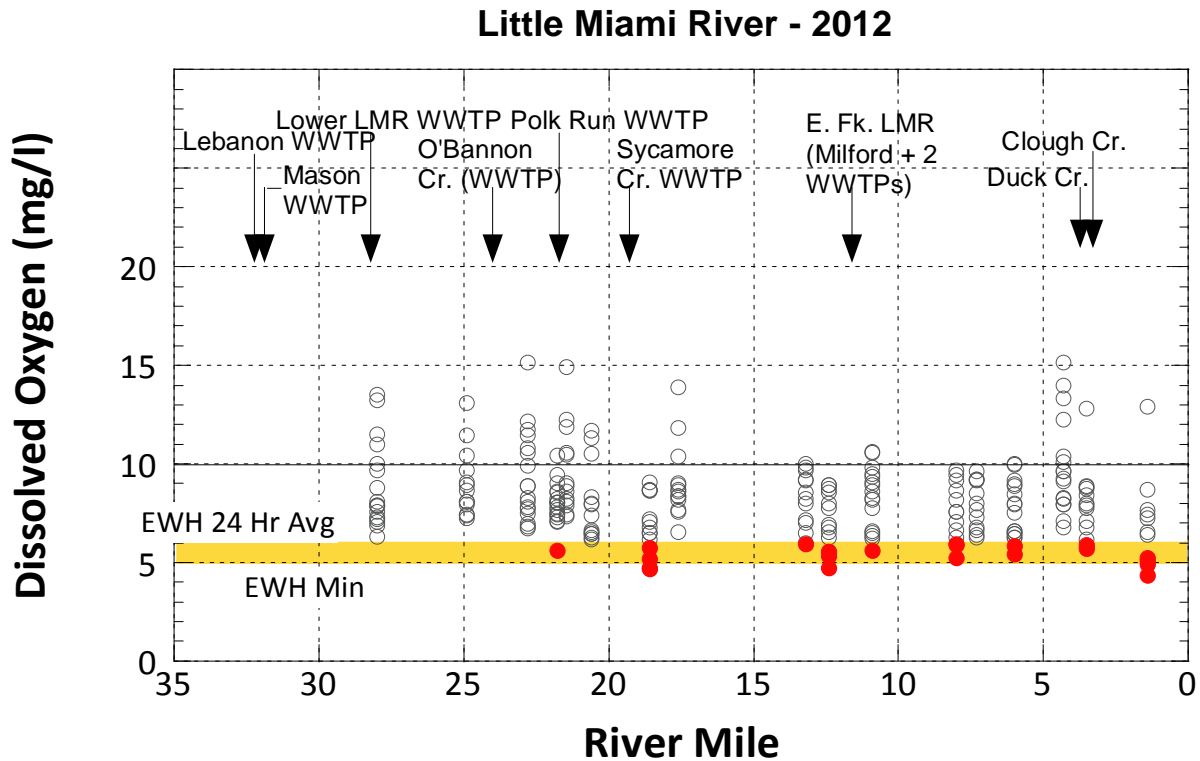


Figure 10. Plot of dissolved oxygen levels for the lower 35 miles of the Little Miami River during 2012. Orange bar presents the 5 mg/l minimum/6 mg/l 24 hr. average EWH D.O. criteria. The red dashed line represents a 12 mg/l level as an upper threshold for excessive diel swings.

pattern is evident in conductivity values (which typically co-vary with chloride) in both the grab samples and the Datasonde data from sites along the Little Miami River.

Despite the wider diel D.O. swings in the Little Miami River, concentrations of both TP and nitrate were lower at most locations than in 1998 or 2007 (Figure 13). There were spikes in both parameters locally downstream from the Lower Little Miami River WWTP and a spike in TP (Figure 13, top) downstream from the confluence with Duck Creek.

*WAU 09-02 - (O'Bannon Creek)*

Both sites on O'Bannon Creek (11-010; LM37, LM38) were located downstream of the O'Bannon WWTP. The upstream site attained the WWH aquatic life use, but the downstream site was partially impaired because of a low MIwb score. Both sites on O'Bannon Creek had elevated conductivity and chloride concentrations compared to reference concentrations and the suburban nature of the watershed was influencing the events. Both sites also had elevated nitrate and total phosphorus levels that may be partly attributed to the O'Bannon WWTP, especially given the magnitude of the values.



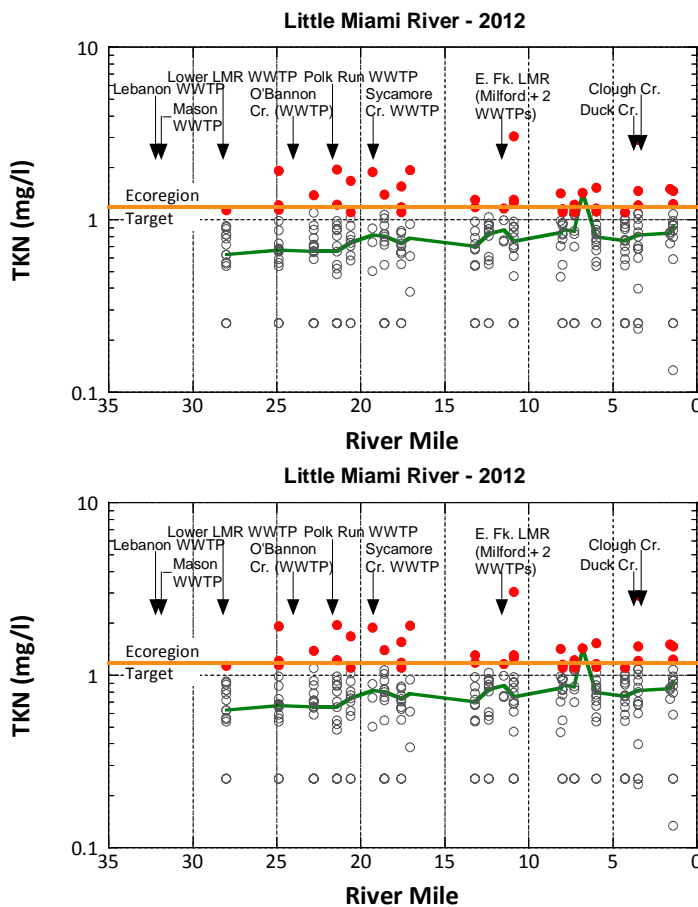


Figure 11. Plot of TKN for the lower 35 miles of the Little Miami River during 2012 (top) and 2007 (bottom). Orange bar represents the regional reference value (ecoregion target) for TKN. The green (upper) and blue (lower) lines are the result of connecting the median values at each site.

(Table 11B).

The North Branch Sycamore Creek (confluence to Sycamore at RM 0.64) met the WWH ALUSE at three of five sites and partially attained WWH at the other two sites due to slight depressions in the IBI scores. Habitat conditions in the North Branch (mean QHEI = 81.4) were excellent and were high than those in Sycamore Creek which were still considered good (mean QHEI = 66.5) and may explain these sites performing better despite even elevated conductivity, TDS, and chlorides compared to Sycamore Creek (Table 11C).

*WAU 13-05 - East Fork Little Miami River Mainstem*

Five sites in the East Fork Little Miami River had very slight exceedances of the 6 mg/l 24-hour average D.O. criterion although none were below the minimum criterion of 5 mg/l (Figure 14).

Compared to the Little Miami River mainstem and other streams in that watershed the East Fork had low conductivities and chloride levels that diluted the higher levels in the Little Miami River downstream from the confluence.

*WAU 14-01 - Sycamore Creek*

Sycamore Creek (11-007) was impaired or partially throughout its length. The only water quality exceedance was for total ammonia at the mouth site (RM 0.2, LM52). Conductivity and total chloride from urban runoff was elevated throughout the stream which could contribute to aquatic life impairment along with very low flow conditions during 2012 (Table 11C). Nutrients were low, perhaps due to low flows except at the most upstream site that had elevated nitrate concentrations

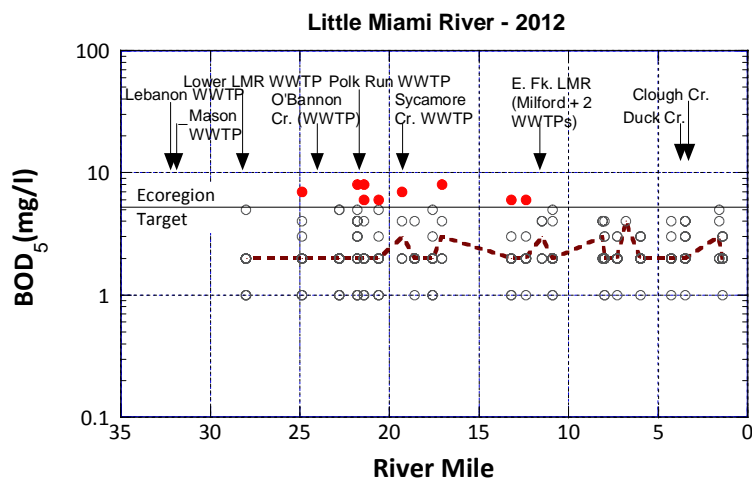


Figure 12. Plot of  $BOD_5$  for the lower 28 miles of the Little Miami River during 2012. Solid line represents statewide large river reference value (ecoregion target) for  $BOD_5$ . The dashed line is the result of connecting the median values at each site.

(Table 11C). This same pattern was evident in a tributary to Sycamore Creek at RM 1.12 (LM53, LM55, LM56). All of these streams had small drainage sizes (0.2-5.7 mi.<sup>2</sup>) and were also affected by the low flow conditions during 2012. For example, both LM54 and LM65 were dry.

*WAU 14-02 - Polk Run*

Polk Run and all of its sampled tributaries are WWH or recommended to be WWH and have QHEI scores considered good-excellent. Polk Run and its tributaries did not show

exceedances of conventional water quality criteria with the exception of slight depressions in pH at two tributaries (LM41, pH 6.55 and LM45, pH 6.39). All of the sites had elevated chlorides (range 67-206) and the sites in Polk Run had elevated TDS and conductivity (Table 11C). Nutrients were not elevated in the Polk Run watershed (Table 11B).

*WAU 14-04 - Duck Creek*

The Duck Creek watershed is generally the most severely impaired in the study area with many reaches converted to concrete channels (LRW reaches) and most of the watershed subject to urban runoff and CSOs. There were exceedances of dissolved oxygen at two sites in Duck Creek (RM 2.9, LM76; RM 0.9, LM79) and one site in Little Duck Creek (RM 0.2, LM 92) (Table 11A). There were also exceedances of metals such as copper and lead at four sites in Duck Creek as well an exceedance of the temperature criteria at LM73 (Table 11A). The temperature exceedance was also observed in the continuous (Datasonde) data at LM77. Elevated temperatures in shallow concrete bottom channels are a pattern we observed in Mill Creek during 2011 (MBI 2012). Most sites (8 of 10) in Duck Creek has elevated TKN (organic nitrogen) which is associated with organic enrichment that can come from SSOs and CSOs as well as urban runoff (Table 11). Little Duck Creek has elevated TKN in the lower two sites (LM89, LM92) which are in the more urban reaches and downstream of the CSOs on the streams (Table 11B). Almost all sites have elevated conductivities, TDS, and chlorides that are associated with CSOs, SSOs and heavy urban runoff (Table 11C). The high conductivity levels are supported by results from continuous (Datasonde) samplers that demonstrated that nearly all values were greater than 1000  $\mu$ S/cm.

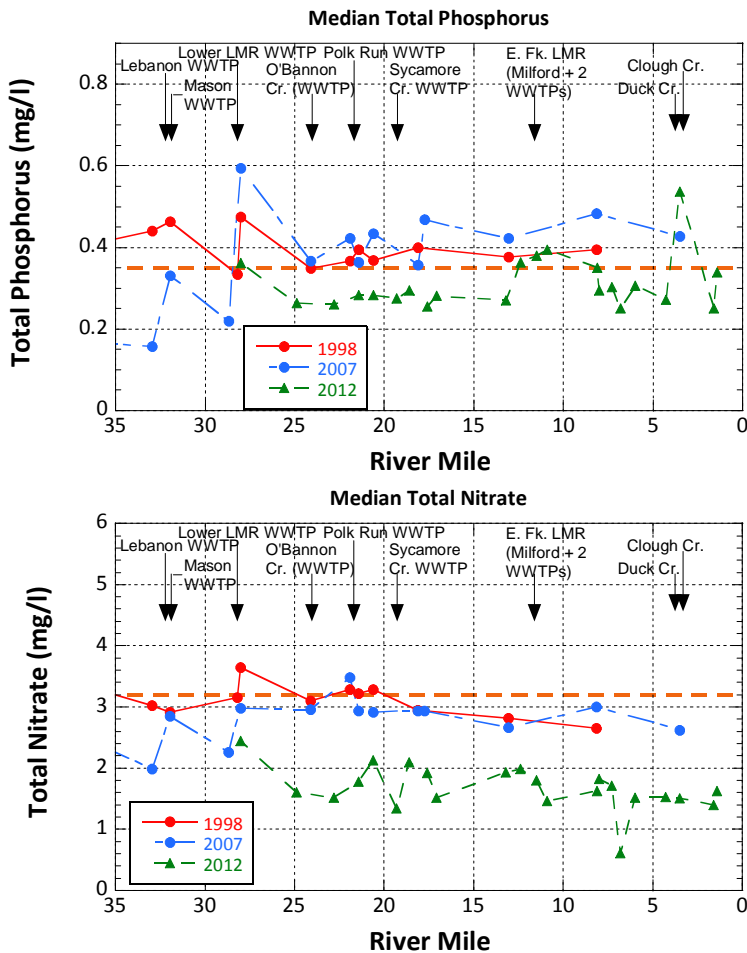


Figure 13. Plots of total phosphorus (top) and total nitrate (bottom) for the lower 28 miles of the Little Miami River during 1998, 2007, and 2012. Dashed orange line represents statewide reference for large rivers.

exceedances of a water quality criteria (D.O., Pb) (Table 11A). All of the sites in Clough Creek and McCullough Run had elevated conductivity and chlorides due to urban runoff (Table 11C); McCullough Run also had slightly elevated TKN concentrations (Table 11B). These are likely due to urban runoff. Habitat characteristics also suggest that urban runoff (i.e., flashiness of flows) may be an influence as well as low flows during 2012.

**WAU 12-08 - Ninemile Creek**

All five sites sampled in this watershed were small headwater sites (0.8-4.6 mi.<sup>2</sup>). Two of three WWH sites in this watershed were partially impaired (Fivemile Creek, LM107) or impaired (Fourmile Creek, LM104) and two others were classified as PHW3A (LM105 and LM106). The sites on Fivemile Creek (LM107) and Fourmile Creek (LM104) that were impaired both had elevated conductivity and chloride levels that may contribute to the aquatic life impairment

The East Fork of Duck Creek did not have exceedances of conventional water quality parameters (Table 11A). Two tributaries, (11-075, Trib to Duck Creek at RM 4.8, LM80; and 11-077, Trib to Little Duck Creek at RM 4.42, LM82) also had elevated TKN levels, likely associated with CSOs and urban runoff (Table 11B).

**WAU 14-05 - Dry Run**

There were no exceedances of conventional water quality criteria at sites in the Dry Run watershed (Table 10). There was an elevation of TKN at the headwater site in Dry Run (Table 11B) and perhaps a slight elevation of chlorides at the mouth of Dry Run (Table 11C) although the major influence on the biota was habitat degradation in the upper sites and low flows throughout, but particularly at the downstream site where lack of flow precluded fish or macroinvertebrate sampling.

**WAU 14-06 - Clough Creek**

Of the sites in the Clough Creek watershed, only the site at the mouth of Clough Creek (RM 0.6, LM98 had

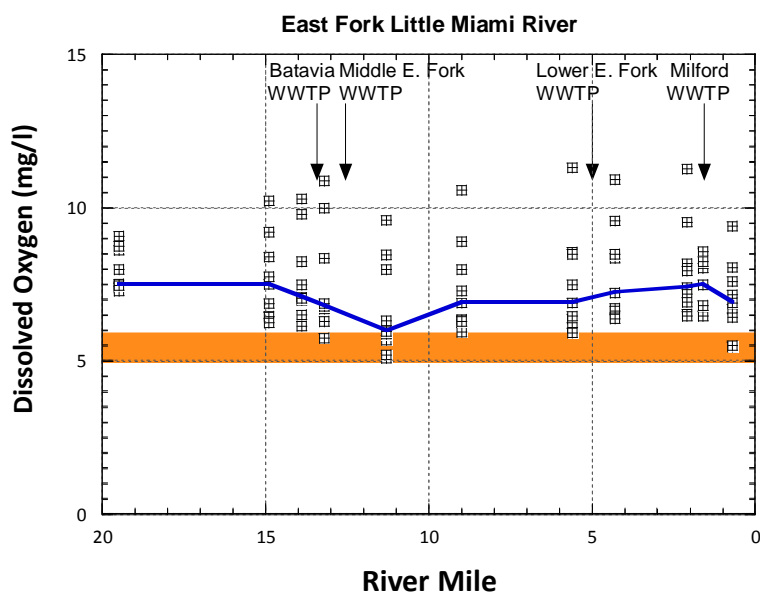


Figure 14. Plot of dissolved oxygen levels for the East Fork of the Little Miami River during 2012. The shaded orange bar presents the 5 mg/l minimum/6 mg/l 24 hr. average EWH D.O. criteria.

(Table 11C) that was likely exacerbated by the low flow conditions.

*WAU 08-03 - (Turtle Creek)*

This watershed contained three Ohio EPA biocriteria reference sites for wadeable streams of the IP ecoregion. Turtle Creek (11-021, RF08) met the WWH biocriteria despite some exceedances of the dissolved oxygen water quality criteria (Table 11A). Dry Creek (11-022, RF09) had no exceedances of basic water quality parameters. Newman Run (11-030, RF10) was too dry

to collect fish and invertebrates when visited, but on occasions where water was flowing and chemical samples collected there were exceedances of the dissolved oxygen criteria (Table 11A). Extremely low flow conditions likely contributed to dissolved oxygen problems in these waters. There are agricultural and urban land uses in these watersheds; however, elevated conductivity and chloride compared to reference conditions (Table 11C) indicate that runoff events also can contribute to the D.O. excursions.

**Continuous Monitoring**

D.O. (mg/l), temperature (°C), conductivity (µS/cm), and pH (S.U.) were monitored continuously over two or three 3-4 consecutive day periods at all mainstem Little Miami River and East Fork of Little Miami River sites and at selected locations in selected tributaries during July, August, and early September. An initial inspection of the results showed patterns and exceedances of various criteria and thresholds for D.O., temperature, and conductivity hence those results are further discussed. The results for pH were by contrast less revealing except that the diel ranges corresponded to those commonly associated with diel D.O. fluctuations.

*LRAU – 90-02 - Little Miami River Mainstem*

Compared to continuous monitoring data collected by Ohio EPA in 2007 (Ohio EPA 2009), continuous monitoring data during 2012 revealed more frequent D.O. values below the EWH 5.0 mg/l minimum, the 6.0 mg/l 24hr average criterion, and a higher frequency of “swings” in diel variations >6.0 mg/l (Figure 15, upper). Swings in D.O. are indicative of excessive nutrient enrichment and its effects on algal production and its effects on the D.O. regime (Miltner et al. 2011). The 2012 D.O. profiles were similar to those observed by Ohio EPA in their 1999 follow-up monitoring to the 1998 bioassessment (Ohio EPA 2000) values.

Temperature data in the lower reach of the Little Miami River mainstem downstream from the confluence with the East Fork of the Little Miami River showed numerous exceedances of the average and maximum temperature criteria during the July 17-19, 2012 time period (Figure 15, middle). The August monitoring event in this reach revealed lower temperatures, but showed the same elevation of temperatures downstream from the East Fork. These results show that the East Fork is a source of thermal enrichment to the Little Miami River mainstem.

Conductivity in the mainstem Little Miami River during continuous sampling periods was within the regional reference range for large rivers in Ohio (Figure 15, lower). The East Fork of the Little Miami River had lower conductivity and “diluted” the higher conductivity values in the Little Miami River downstream from the confluence.

#### *WAU 13-05 - East Fork Little Miami River*

Continuous D.O. in the East Fork Little Miami River revealed some values below the EWH 6.0 mg/l 24-hour average criterion, but no wide swings in the diel D.O. range were observed like what was observed in the mainstem Little Miami River (Figure 16, upper). Some excursions above the average temperature criteria occurred, but none exceeded the maximum criterion (Figure 16, middle). Continuous temperature data was not collected during the Harsha Lake draw-down of August 20-22. The exceedances of the maximum temperature criteria in the mainstem Little Miami River downstream from the East Fork confluence during July 17-19, despite “dilution” by cooler temperatures in the Little Miami River, indicates that the maximum criterion was likely exceeded in the East Fork Little Miami, perhaps by a wide margin.

Conductivity was well-below the statewide regional reference values in the East Fork (Figure 16, lower) and it acts to “dilute” the higher conductivity in the Little Miami River mainstem downstream from the confluence (Figure 15, lower).

#### *WAU 09-02 – O’Bannon Creek*

The downstream O’Bannon Creek site (LM38) near the mouth had some continuous D.O. values below the WWH 5.0 mg/l 24-hr average criterion (Figure 17, upper) although diel D.O. swings during the single period of sampling were not >6 mg/l. The downstream site (LM38) also had warmer temperatures with the median near the 24-hr average temperature criterion (Figure 17, middle). As with many streams that are impacted by WWTPs and urban development, continuous conductivity results were well above the regional reference threshold for streams in the Interior Plateau (Figure 17, lower).

#### *WAU 14-01 – Sycamore Creek/North Branch Sycamore Creek*

Three of the six Sycamore Creek sites (LM48, LM50, LM52) revealed some continuous D.O. values in mid-August below the WWH 5mg/l 24-hr average criterion (Figure 17, upper left) and diel D.O. swings >6.0 mg/l. There were some individual temperature readings above the average criterion, but no values exceeded the maximum criterion (Figure 17, middle). Conductivity results were well above the regional reference threshold for streams (Figure 17, lower). The North Branch of Sycamore Creek had ranges of D.O. (Figure 17, top) and

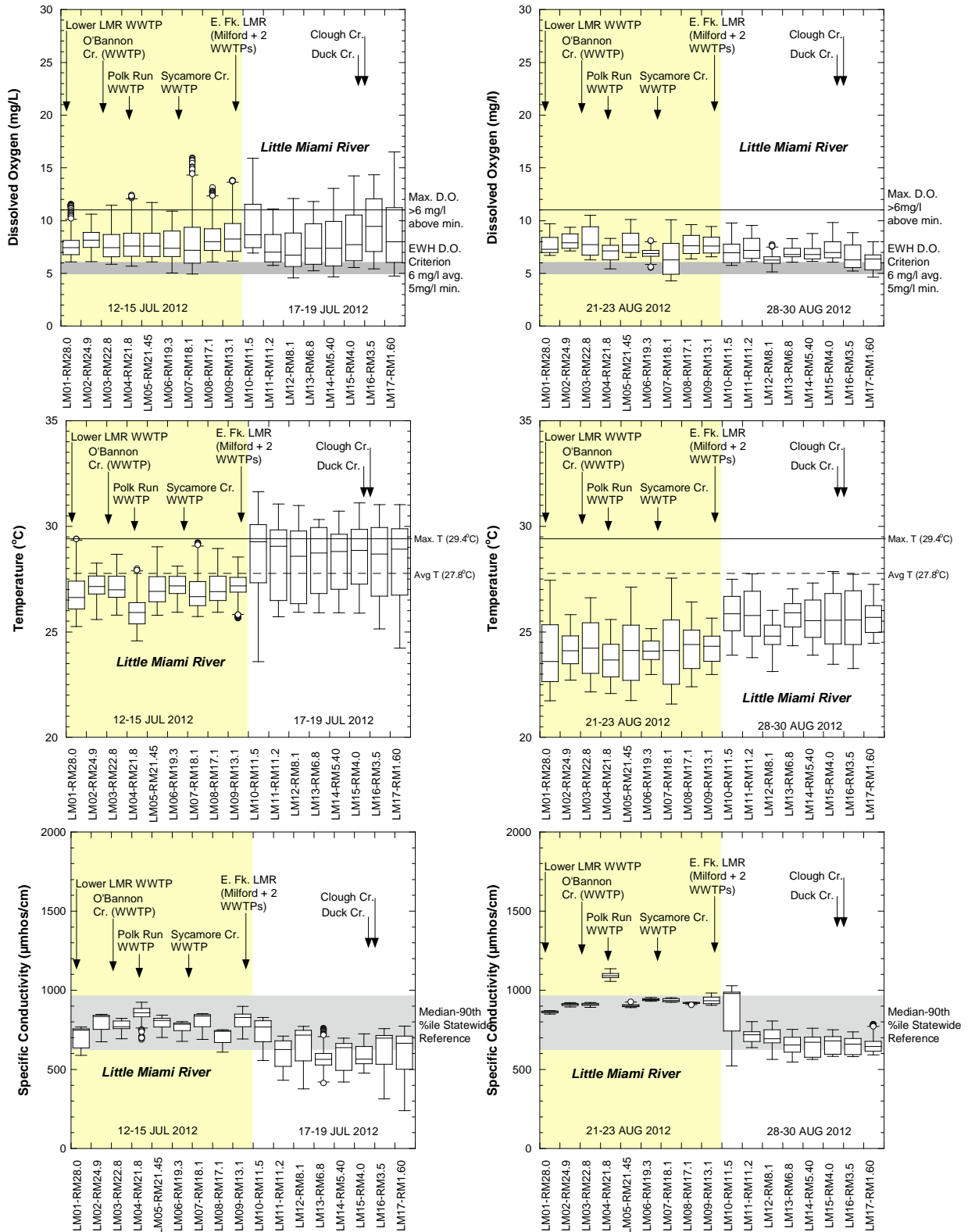


Figure 15. Continuous D.O. (upper), temperature (middle) and conductivity (lower) results in the mainstem of the Little Miami river during mid-July (left shaded yellow) and late August (right half) of 2012.

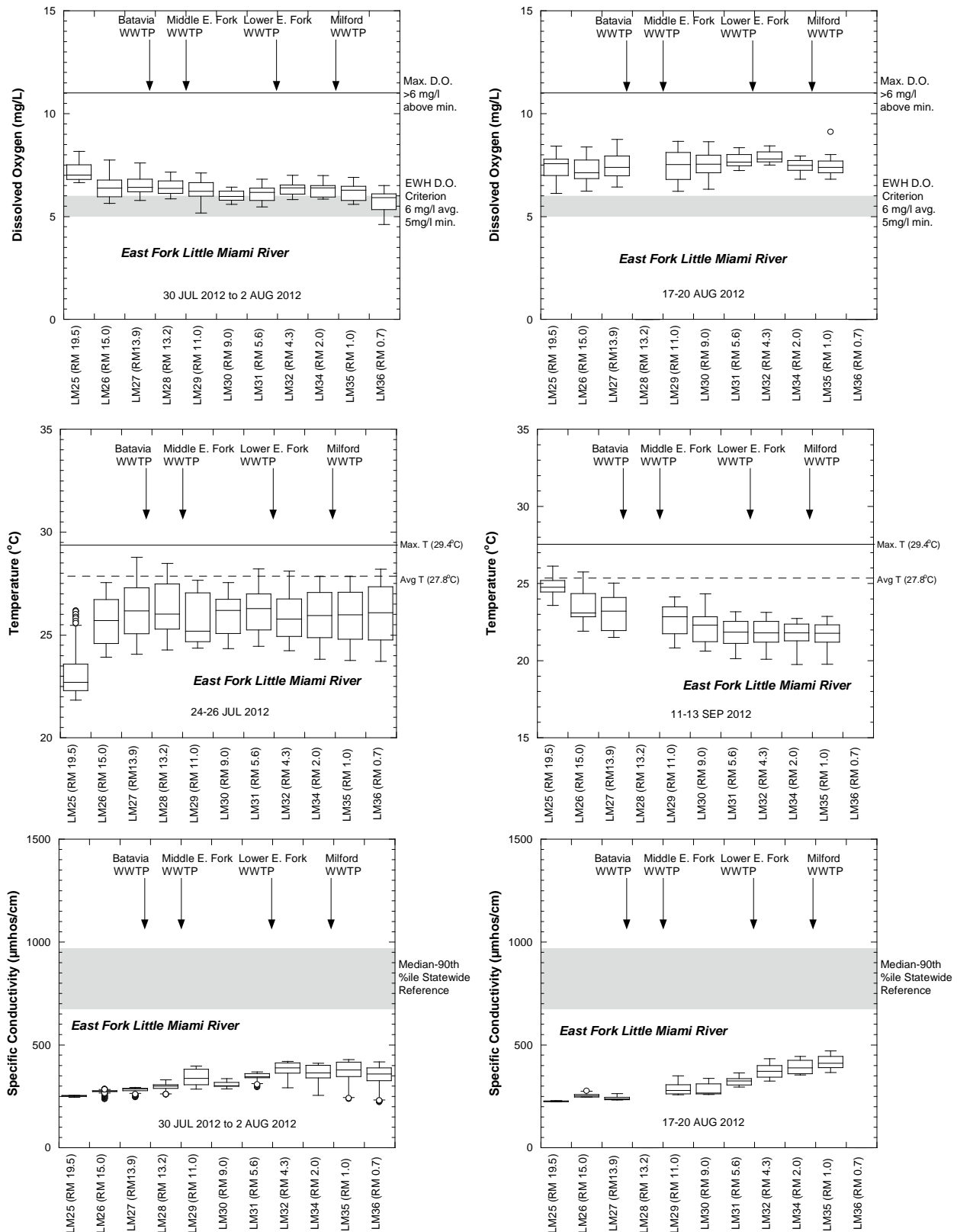


Figure 16. Continuous D.O. (upper), temperature (middle) and conductivity (lower) results in the mainstem of the East Fork Little Miami river during late July (left) and mid-August (right) of 2012. The shaded bar is the range between the median and 90<sup>th</sup> %ile statewide reference values.

temperature (Figure 17, middle) that were more consistent with regional reference thresholds and only slightly elevated conductivity compared to regional reference conditions (Figure 17, bottom).

#### *WAU 14-04 – Duck Creek*

D.O. in Duck Creek during the early-August period was variable, but several sites had wide diel D.O. swings (Figure 18, top). Site LM79 had a diel swing of nearly 12 mg/l. Data from September was less variable with higher D.O. and lower diel variation. Temperatures were elevated in Duck Creek at the first site downstream from the concrete channel (LM77) having a median that exceeded the WWH average criterion with more than 25% of the values in excess of the WWH maximum temperature criterion (Figure 18, middle). In the LRW reaches of Duck Creek there were no exceedances of the much more lenient LRW criteria during the early August sample. Conductivity levels in Duck Creek were the highest in the study area and well above regional reference thresholds (Figure 18, lower).

#### *WAU 14-06 – Clough Creek*

The upstream-most Clough Creek site (LM99) exceeded the WWH D.O. 24-hr average and minimum criteria during both the early August and late September periods (Figure 18, upper). The next two downstream sites had either low D.O. values (LM96) or a moderate diel D.O. swing (LM95) during the early August sample. Temperatures were elevated at three of the sites during the early August period with values greater than the WWH average and a few values greater than the maximum criterion at the downstream most site (Figure 18, middle). Conductivity at the upstream-most site (LM99; Figure 18, lower) was highly elevated compared to regional reference thresholds.

#### *WAU 14-02 – Polk Run*

Neither of the Polk Run sites had low D.O. concentrations (Figure 19, upper). Temperatures were relatively normal during both the mid-August and late-September sampling periods (Figure 19, middle). Conductivity, however, was high compared to regional reference thresholds and were reflective of the urban development in this watershed (Figure 19, lower).

#### *WAU 12-08 - Ninemile Creek*

The median D.O. in Fivemile Creek was below the WWH 5.0 mg/l 24-hr average criterion with some values less than the 4 mg/l minimum criterion (Figure 19, upper). Eight Mile Creek had a few values below the WWH 5 mg/l average criterion, whereas the upstream site in Five Mile Creek (LM107) had more than 25% of the values below the WWH 4 mg/l minimum criterion and diel D.O. swings >6.0 mg/l (Figure 19, upper). The downstream site on Five Mile Creek (LM108) had good D.O. levels during this period (median ≈8.0 mg/l) with only minor variation in diel D.O. (Figure 19, upper).

Temperature patterns in these streams mirrored the D.O. results with elevated temperatures in Four Mile Creek (LM104; <25% > WWH average) and the upstream site on Five Mile Creek where the median was higher than the WWH average and values exceeding the WWH maximum criterion (Figure 19, middle). The other two sites (LM 105, LM 108) had cooler



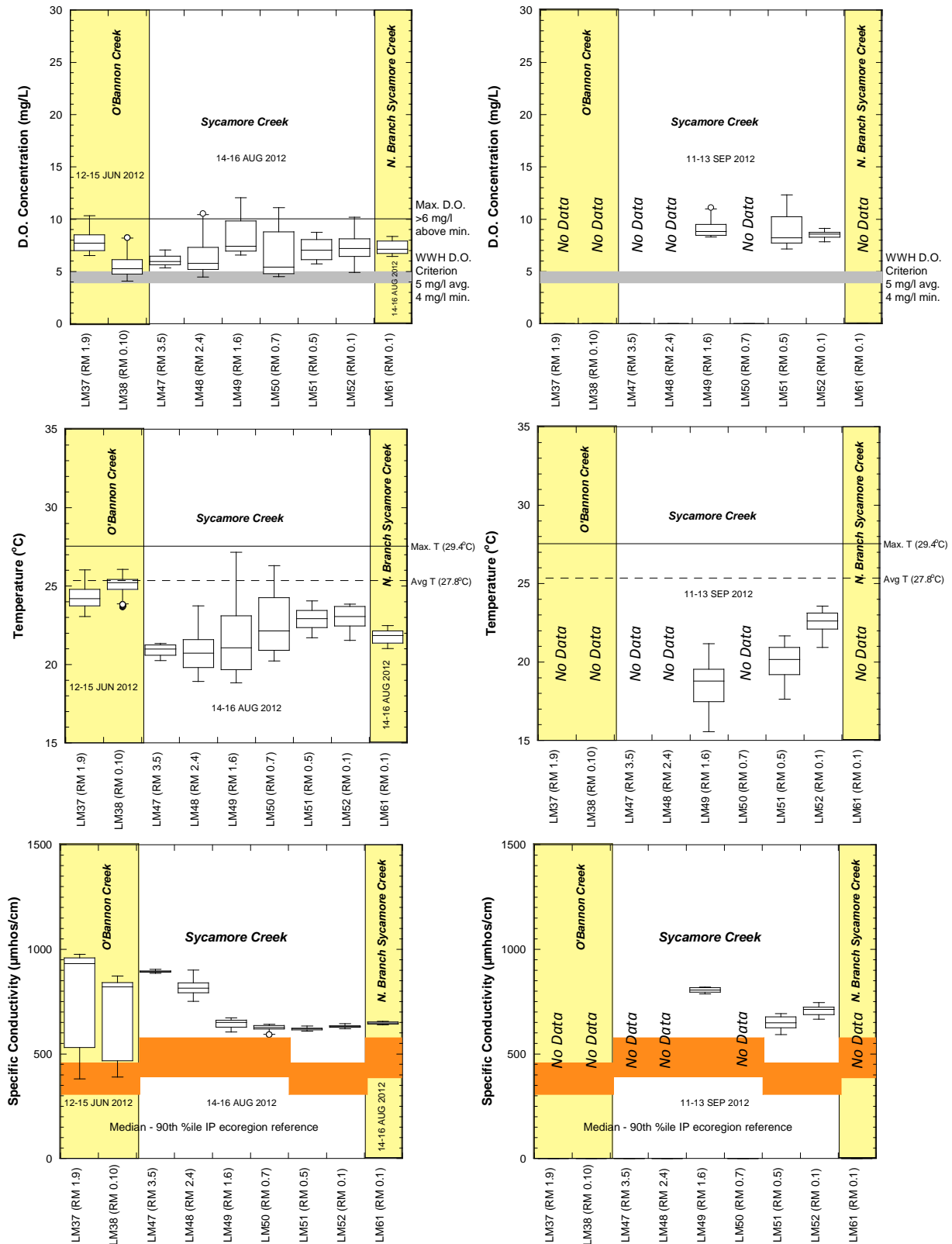


Figure 17. Continuous D.O. (upper), temperature (middle) and conductivity (lower) results from O'Bannon Creek (left yellow shaded), Sycamore Creek, and North Fork Sycamore Cr. (right yellow shaded) during mid-August (left) and mid-September (right) of 2012. The shaded orange bar is the range between the median and 90<sup>th</sup> %ile statewide specific conductivity reference values.

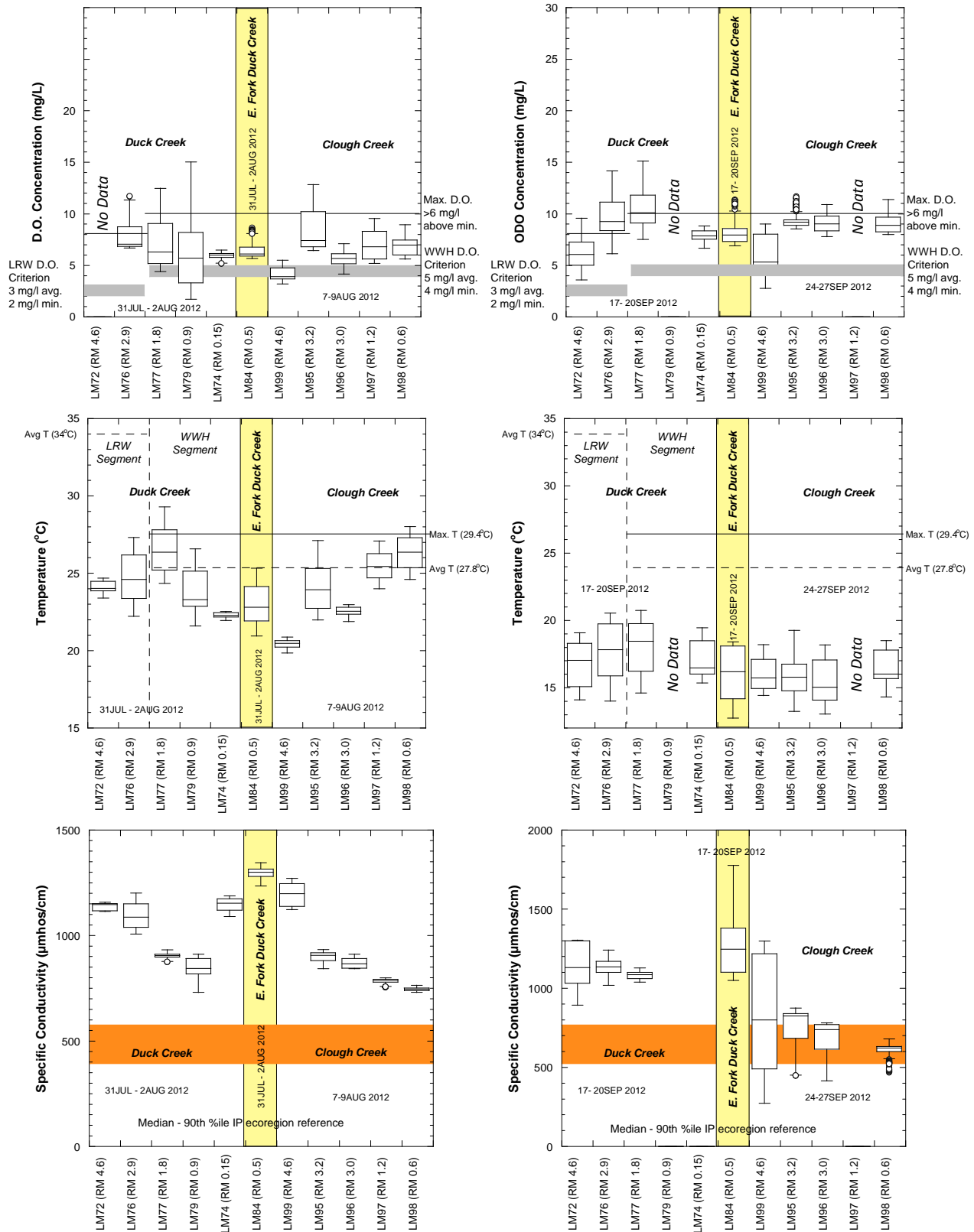


Figure 18. Continuous D.O. (upper), temperature (middle) and conductivity (lower) results from Duck Creek, East Fork Duck Creek (yellow shaded) and Clough Creek during early August (left) and mid-September (right) of 2012. The shaded bar is the range between the median and 90<sup>th</sup> %ile statewide specific conductivity reference values.

temperatures during this period with all values less than the WWH average criterion (Figure 19, middle). All sites had conductivity values well above the regional reference thresholds for headwater streams in the Interior Plateau ecoregion (Figure 19, lower).

#### *WAU 08-03 – Turtle Creek (Reference Sites)*

Continuous monitoring was conducted in the three reference sites in the study area - Turtle Creek, Dry Run, and Newman Run (Figure 20, upper) during mid-August and late September. All three sites had D.O. values below the WWH 5.0 mg/l 24-hr average criterion and Dry Run and Newman Run had values below the WWH 4 mg/l minimum criterion (Figure 20, upper). Dry Run had diel D.O. swings >6.0 mg/l during both periods and Newman Run was dry in September. The low D.O. values were likely accentuated by the critically low flows during 2012. Temperatures exceeded the WWH maximum criterion in Turtle Creek, but were much lower at the other sites in August and all sites in September (Figure 20, middle). Conductivity values were within regional reference thresholds for Turtle Creek and only slightly above for Dry Run and Newman Run (Figure 20, lower).

#### ***Sediment Chemistry***

Sediment samples were collected from 49 sites in the Little Miami River and selected sites in the major tributaries. Analyses were conducted for heavy metals and organic compounds. The MacDonald et al. (2000) consensus-based levels and the Ohio EPA (2008) sediment reference values (SRV) were used to screen for potential adverse effects to aquatic life. MacDonald et al. (2000) described two values for sediment metals and organic compounds - a threshold effects concentration (TEC) and a probable effects concentration (PEC), the latter being more certain of harmful effects.

Ten (10) of 49 sites had no sediment metal concentrations greater than the PEC (probable effect level), 12 sites with concentrations greater than the threshold effects levels, and 16 sites with concentrations greater than the Ohio SRVs (Table 12). Of these 12 sites that exceeded the TEC levels, 6 were in Duck Creek, two in the Little Miami River (LM8 and LM9), and four in the headwaters of Sycamore Creek. The sites that also exceeded the Ohio SRVs included two additional sites in Duck Creek, a site in Dry Run, and a site on the North Branch of Sycamore Creek.

No sites, for the limited number of parameters where we have TEC/PEC benchmarks, exceeded the organic compound benchmarks (Table 13). Even so, the pattern of detections vs. tested counts can be useful to identify sites where values are greater than the detection limit, but which do not exceed the benchmarks. Greater detection of these compounds can help identify areas and sources that may prove to be a threat. The Little Miami River mainstem had few detected compounds, whereas the greatest number and frequency of detections was highest in the Duck Creek subbasin.

#### *LRAU 90-02 – Little Miami River*

The lower Little Miami River had few exceedances of the Ohio SRV or TEC benchmarks except at adjacent stations LM8 and LM9 (RMs 17.6 and 13.2). These stations are located downstream of

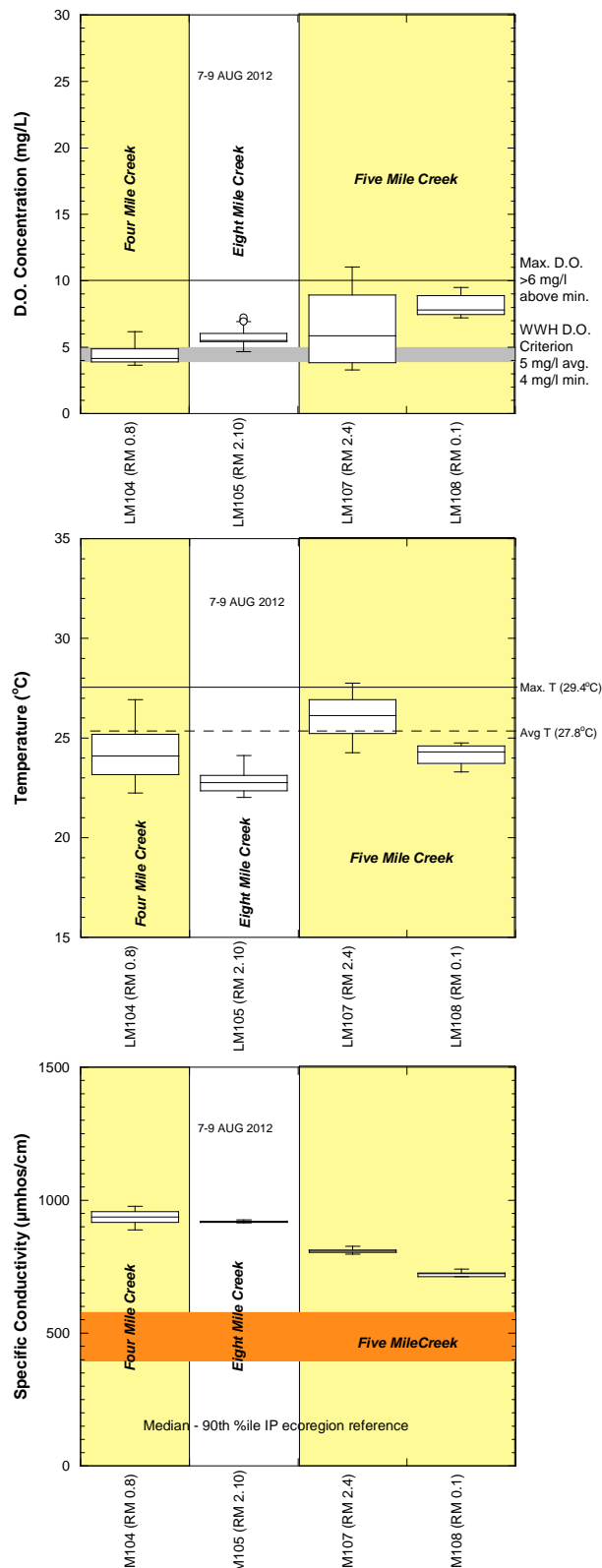


Figure 19. Continuous D.O. (upper), temperature (middle) and conductivity (lower) results from Fourmile Creek (yellow shaded left), Eightmile Creek, and Fivemile Creek (yellow shaded right) during mid-August (left) and late September (right) of 2012. The shaded bar is the range between the median and 90<sup>th</sup> %ile statewide specific conductivity reference values.

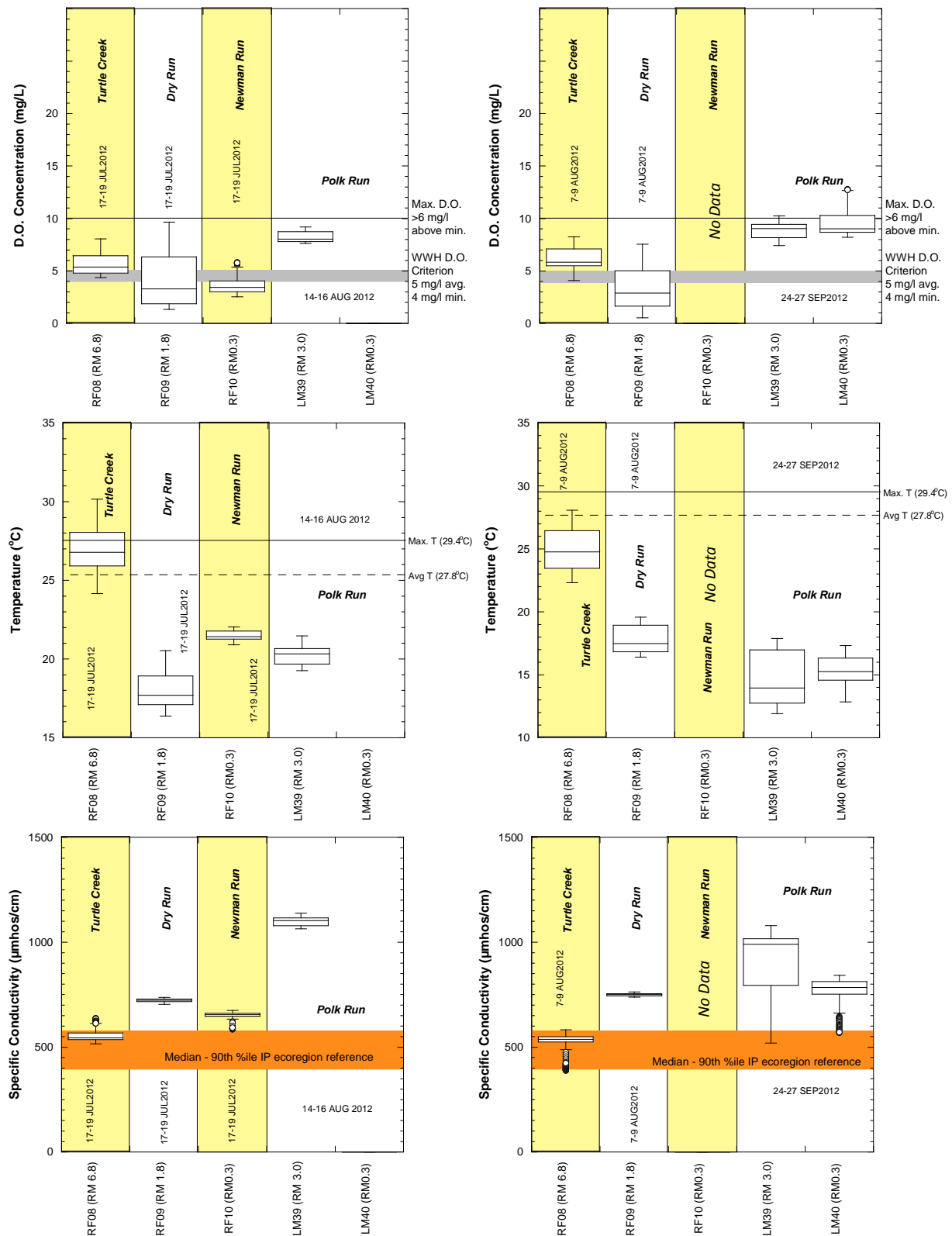


Figure 20. Continuous D.O. (upper), temperature (middle) and conductivity (lower) results from Turtle Run (left yellow shaded), Dry Run, Newman Run (middle yellow shaded) and Polk run during mid-August (left) and late September (right) of 2012. The shaded bar is the range between the median and 90<sup>th</sup> %ile statewide specific conductivity reference values.

Sycamore Creek. Data collected at 13.07 by Ohio EPA in 2007 did not identify values above sediment metal benchmarks.

*WAUs 90-02 O'Bannon Creek and 14-02 Polk Run*

There were no exceedances of sediment metal benchmarks in the O'Bannon Creek or Polk Run watersheds. This matched data collected by Ohio in 2007 where no exceedances of benchmarks were noted.

*WAU 14-01 – Sycamore Creek*

The four headwater sites in Sycamore Creek, upstream of the Sycamore WWTP and the North Fork confluence had sediments metal above Ohio SRV and the TEC benchmarks for arsenic, lead, copper and zinc. The headwater reaches of Sycamore Creek also had more organic compounds detected than all other subwatersheds except for Duck Creek; none of the organic compounds exceeded TEC organic benchmarks. The sediment metals may have originated from urban runoff from roads and other urban impervious surfaces. There was a sediment sample from the mouth from the 1999 Ohio EPA survey that largely had low sediment metals and they did not sample in the headwaters.

*WAU 13-05 – East Fork Little Miami River*

There were no exceedances of the Ohio SRV or TEC benchmarks at four of the lower sites in the East Fork of the Little Miami River. A single site at RM 0.77 sampled by Ohio EPA in 2007 also showed no exceedances of sediment metals benchmarks.

*WAU 14-03 - Duck Creek*

Duck Creek had the most exceedances of metals benchmarks of any small subwatershed in the lower Little Miami watershed. Every site sampled (8 sites) had metal elevated above the Ohio SRV benchmarks and 6 of these sites also had metal concentrations above the TEC benchmarks (Table 12). Arsenic, copper, lead and zinc are the predominant metals that exceed these benchmarks. Although there were no exceedances of organic compound benchmarks in Duck Creek it had up to 15 organic compounds detected in the sediments, more than others in the watershed except for the upper reaches of Sycamore Creek. Metal and organic compounds in the sediments can come from urban runoff from roadways and urban impervious surfaces, but also from CSOs and SSOs that occur in the Duck Creek watershed.

*Table 12. Sediment metal concentrations in the lower Little Miami River study area that were tested, detected, >Ohio sediment reference values (SRV), greater than the Threshold Effect Concentration (TEC), or greater than the Probable Effect Concentration (PEC).*

Site ID	River Mile	Date	Metals Tested	Metals Detected	< Ohio SRV Guidelines	>TEC and < PEC	>PEC
<b>LRAU 90-02 – Little Miami River</b>							
<i>11-001 – Little Miami River</i>							
LM01	28.00	20121022	8	8			
LM02	24.90	20121022	8	8			
LM03	22.80	20121022	8	8			
LM04	21.80	20121022	8	8			
LM05	21.45	20121022	8	8			
LM06	20.60	20121022	8	8			
LM07	18.60	20121023	8	8			
LM08	17.60	20121023	8	8	Cd (0.47); Cu (44.20); Zn (182.00); Fe (39400.00); Ca (97800.00)	As (9.98); Cu (44.20); Pb (38.10); Zn (182.00)	
LM09	13.20	20121023	8	8	Cd (0.52); Zn (129.00)	Zn (129.00)	
LM10	12.40	20121023	8	8			
LM11	10.90	20121023	8	8			
LM12	8.00	20121023	8	8			
LM13	7.30	20121023	8	8			
LM14	6.00	20121024	8	8			
LM15	4.30	20121023	8	8			
LM16	3.50	20121022	8	8			
<i>[11-067] - Unnamed Trib to Little Miami River at RM 7.75</i>							
LM20	1.20	20121025	8	8			
<b>WAU 09-02 – O’Bannon Creek</b>							
<i>[11-010] - O’Bannon Creek (LMR RM 24.06)</i>							
LM37	1.90	20121023	8	8			
LM38	0.10	20121022	8	8			
<b>WAU 14-02 – Polk Run</b>							
<i>[11-009] - Polk Run (LMR RM 21.54)</i>							
LM46	3.90	20121024	8	8			
LM39	3.10	20121024	8	8			
<b>WAU 14-01 – Sycamore Creek</b>							
<i>[11-007] - Sycamore Creek (LMR RM 19.2)</i>							
LM47	3.60	20121024	8	8	As (16.20); Fe (31500.00)	As (16.20); Pb (44.20)	

*Table 12. Sediment metal concentrations in the lower Little Miami River study area that were tested, detected, >Ohio sediment reference values (SRV), greater than the Threshold Effect Concentration (TEC), or greater than the Probable Effect Concentration (PEC).*

Site ID	River Mile	Date	Metals Tested	Metals Detected	< Ohio SRV Guidelines	>TEC and < PEC	>PEC
LM48	2.40	20121024	8	8	As (15.10)	As (15.10)	
LM49	1.60	20121024	8	8	Zn (152.00)	Zn (152.00)	
LM50	1.10	20121024	8	8	Cu (32.00); Pb (51.10); Zn (101.00)	Cu (32.00); Pb (51.10)	
LM51	0.50	20121022	8	8			
LM52	0.20	20121022	8	8			
<i>[11-008] - North Branch Sycamore Creek</i>							
LM57	5.20	20121025	8	8	Cd (0.33)		
LM58	3.70	20121025	8	8			
LM59	2.10	20121025	8	8			
LM60	0.50	20121022	8	8			
<i>[11-049] - Trib To Sycamore Cr. (RM 1.12)</i>							
LM55	1.00	20121025	8	8			
LM56	0.30	20121025	8	8			
<b>WAU 13-05 – East Fork Little Miami River</b>							
<i>[11-100] - East Fork Little Miami River (LMR RM 11.5)</i>							
LM32	4.30	20121023	8	8			
LM34	2.10	20121023	8	8			
LM35	1.60	20121023	8	8			
LM36	0.70	20121023	8	8			
<b>WAU 14-05 – Dry Run</b>							
<i>[11-005] - Dry Run (LMR RM 7.54)</i>							
LM70	5.70	20121024	8	8			
LM66	4.20	20121025	8	8	Cd (0.31)		
LM67	2.50	20121025	8	8			
<b>WAU 14-03 – Duck Creek</b>							
<i>[11-004] - Duck Creek (LMR RM 3.87)</i>							
LM71	6.00	20121024	8	8	Ca (175000.0); Mg (43000.00)		
LM72	4.70	20121023	8	8	As (13.40); Cd (0.33); Cu (32.40)	As (13.40); Cu (32.40)	
LM73	4.40	20121024	8	8	As (28.70); Cd (0.56); Cu (52.30); Zn (129.00)	As (28.70); Cu (52.30); Pb (42.20); Zn (129.00)	



*Table 12. Sediment metal concentrations in the lower Little Miami River study area that were tested, detected, >Ohio sediment reference values (SRV), greater than the Threshold Effect Concentration (TEC), or greater than the Probable Effect Concentration (PEC).*

<b>Site ID</b>	<b>River Mile</b>	<b>Date</b>	<b>Metals Tested</b>	<b>Metals Detected</b>	<b>&lt; Ohio SRV Guidelines</b>	<b>&gt;TEC and &lt; PEC</b>	<b>&gt;PEC</b>
LM75	3.30	20121023	8	8	As (11.70); Cd (0.42); Cu (103.00); Pb (106.00); Zn (141.00)	As (11.70); Cu (103.00); Pb (106.00); Zn (141.00)	
LM76	2.90	20121023	8	8	Cd (0.43); Cu (28.40)		
LM77	1.80	20121024	8	8	As (11.30); Pb (48.80)	As (11.30); Pb (48.80)	
LM91	1.00	20121024	8	8	Cd (0.46); Cu (45.30); Zn (120.00)	As (10.20); Cu (45.30); Pb (42.00)	
LM74	0.20	20121023	8	8	Cu (34.30); Pb (53.50); Zn (106.00)	Cu (34.30); Pb (53.50)	
<b>WAU 14-06 Clough Creek</b>							
<i>[11-079] - Trib to Unnamed Trib to Clough Creek at RM3.06</i>							
LM101	1.10	20121024	8	8			

*Table 13. Sediment organic compound concentrations in the lower Little Miami River watershed that were tested, detected, greater than the Threshold Effect Concentration (TEC), or greater than the Probable Effect Concentration (PEC).*

Site ID	River Mile	Date	Aq. Life Use	Organic Compounds Tested	Organic Compounds Detected	>TEC and < PEC	>PEC
<b>LRAU 90-02 – Little Miami River</b>							
<i>11-001 – Little Miami River</i>							
LM01	28.00	20121022	EWH	135	4		
LM02	24.90	20121022	EWH	134	4		
LM03	22.80	20121022	EWH	134	3		
LM04	21.80	20121022	EWH	125	3		
LM05	21.45	20121022	EWH	134	3		
LM06	20.60	20121022	EWH	134	4		
LM07	18.60	20121023	EWH	134	4		
LM08	17.60	20121023	EWH	133	3		
LM09	13.20	20121023	EWH	106	0		
LM10	12.40	20121023	EWH	106	0		
LM11	10.90	20121023	EWH	134	5		
LM12	8.00	20121023	EWH	135	4		
LM13	7.30	20121023	EWH	135	4		
LM14	6.00	20121024	EWH	106	0		
LM15	4.30	20121023	EWH	135	4		
LM16	3.50	20121022	WWH	135	4		
<i>[11-067] - Unnamed Trib to Little Miami River at RM 7.75</i>							
LM20	1.20	20121025	PHW3A	106	1		
<b>WAU 09-02 – O’Bannon Creek</b>							
<i>[11-010] - O'Bannon Creek (LMR RM 24.06)</i>							
LM37	1.90	20121023	WWH	134	3		
LM38	0.10	20121022	WWH	135	4		
<b>WAU 14-02 – Polk Run</b>							
<i>[11-009] - Polk Run (LMR RM 21.54)</i>							
LM46	3.90	20121024	WWH	135	14		
LM39	3.10	20121024	WWH	133	10		
<b>WAU 14-01 – Sycamore Creek</b>							
<i>[11-007] - Sycamore Creek (LMR RM 19.2)</i>							
LM47	3.60	20121024	WWH	132	19		
LM48	2.40	20121024	WWH	135	14		
LM49	1.60	20121024	WWH	134	10		
LM50	1.10	20121024	WWH	133	3		
LM51	0.50	20121022	WWH	128	4		
LM52	0.20	20121022	WWH	134	4		
<i>[11-008] - North Branch Sycamore Creek</i>							
LM57	5.20	20121025	WWH	135	19		
LM58	3.70	20121025	WWH	106	1		
LM59	2.10	20121025	WWH	106	0		
LM60	0.50	20121022	WWH	134	4		
<i>[11-049] - Trib To Sycamore Cr. (RM 1.12)</i>							
LM55	1.00	20121025	WWH	135	16		
LM56	0.30	20121025	WWH	134	10		

*Table 13. Sediment organic compound concentrations in the lower Little Miami River watershed that were tested, detected, greater than the Threshold Effect Concentration (TEC), or greater than the Probable Effect Concentration (PEC).*

Site ID	River Mile	Date	Aq. Life Use	Organic Compounds Tested	Organic Compounds Detected	>TEC and < PEC	>PEC
<b>WAU 13-05 – East Fork Little Miami River</b>							
<i>[11-100] - East Fork Little Miami River (LMR RM 11.5)</i>							
LM32	4.30	20121023	EWH	135	4		
LM34	2.10	20121023	EWH	134	3		
LM35	1.60	20121023	EWH	135	4		
LM36	0.70	20121023	EWH	135	4		
<b>WAU 14-05 – Dry Run</b>							
<i>[11-005] - Dry Run (LMR RM 7.54)</i>							
LM70	5.70	20121024	PHW3A	106	0		
LM66	4.20	20121025	WWH	106	0		
LM67	2.50	20121025	WWH	106	0		
<b>WAU 14-03 – Duck Creek</b>							
<i>[11-004] - Duck Creek (LMR RM 3.87)</i>							
LM71	6.00	20121024	LRW	135	13		
LM72	4.70	20121023	LRW	135	9		
LM73	4.40	20121024	LRW	135	12		
LM75	3.30	20121023	LRW	135	15		
LM76	2.90	20121023	WWH	135	9		
LM77	1.80	20121024	WWH	106	4		
LM91	1.00	20121024	WWH	106	1		
LM74	0.20	20121023	WWH	134	15		
<b>WAU 14-06 Clough Creek</b>							
<i>[11-079] - Trib to Unnamed Trib to Clough Creek at RM3.06</i>							
LM101	1.10	20121024	WWH	106	0		

**Stream Habitat in the Lower Little Miami River Watershed**

This section focuses on key habitat stressors in each of the Lower Little Miami River 12-digit watersheds. This assessment is based on the QHEI and its metrics, submetrics, and individual attributes. A QHEI matrix showing both good and poor habitat attributes (after Rankin 1995) was developed for each site in the Little Miami River study area (Table 14).

**LRAU – Little Miami River**

Compared to QHEIs collected in 1998 and 2007 by Ohio EPA, QHEI values in 2012 were consistently lower, although in most cases it was less than 10 points (Figure 21, top). An examination of individual metrics shows that much of the difference was related to the cover metric score (Figure 21, bottom; Table 14). It is uncertain whether cover changed substantially since 2007, but perhaps a more likely scenario is that the low flows during 2012 may have isolated some cover features from the sampling transect (e.g., woody debris, rootwads, undercut banks). Nevertheless, the intolerant and sensitive fish species that have declined in the Little Miami are mostly habitat and fluvial specialist species that are dependent on having

Table 14. Qualitative Habitat Evaluation Index (QHEI) scores showing Good and Modified Habitat attributes at sites in the Little Miami River study area, 2012 (■ - good habitat attribute; ● - high influence modified attribute; ● - moderate influence modified attribute).

Site ID	River Mile	QHEI	Good Habitat Attributes										High Influence Modified Attributes					Moderate Influence Modified Attributes										Ratios							
			No Channelization	Boulder, Cobble, Gravel	Silt Free	Good-Excellent Development	Moderate-High Sinuosity	Moderate-Extensive Cover	Fast Flow w Eddies	Little to No Embeddedness	Max Depth > 40 cm	No Riffle Embeddedness	"Good" Habitat Attributes	Channelized or No Recovery	Silt/Muck Substrates	No Sinuosity	Sparse No Cover	Max Depths <40 cm	High Influence Poor Attributes	Recovering from Channelization	Mod-High Silt Cover	Sand Substrates (Boatable sites)	Hardpan Origin	Fair- Poor Development	Low Sinuosity	≤ 2 Cover Types	Intermittent Flow or Pools <20 cm	No Fast Current Types	Mod-Extensive Embeddedness	Mod-Extensive Riffle Embeddedness	No Riffle	Poor Habitat Attributes	Ratio of Poor (High) to Good	Ratio of Poor (All) to Good	
<b>LRAU 90-02 – Little Miami River</b>																																			
<i>11-001 – Little Miami River</i>																																			
LM01	27.8	73	■	■		■		■		■	■	■	■	■	■	7				●		1											3	2	0.5
LM02	23.7	76.5	■	■			■	■	■	■	■	■	■	■	■	8				●		1			●								3	2.25	0.44
LM03	22.1	69.5	■	■							■	■	■	■	■	4				●	●	1			●								6	0.71	1.4
LM04	21.7	75	■	■		■		■	■	■	■	■	■	■	■	7				●		1											3	2	0.5
LM05	21.25	74	■	■			■	■	■	■	■	■	■	■	■	7				●		1											4	1.6	0.63
LM06	20.6	82	■	■		■		■	■	■	■	■	■	■	■	8				●		1											1	4.5	0.22
LM07	18.4	72	■	■		■					■	■	■	■	■	5				●	●	1											6	0.86	1.17
LM08	17.6	84	■	■		■	■	■	■	■	■	■	■	■	■	9				●		1											3	2.5	0.4
LM09	12.9	81.5	■	■		■	■	■	■	■	■	■	■	■	■	9				●		1											1	5	0.2
LM10	11.8	75.5	■	■				■		■	■	■	■	■	■	6				●		1											5	1.17	0.86
LM11	11.2	88.5	■	■		■	■	■	■	■	■	■	■	■	■	9						0											0	10	0.1
LM12	8.3	73.5	■	■		■	■		■	■	■	■	■	■	■	8				●		1				●							3	2.25	0.44
LM13	7.1	75	■	■				■		■	■	■	■	■	■	6						0				●							5	1.17	0.86
LM14	6	54.5	■	■				■		■	■	■	■	■	■	6				●		1				●			●				5	1.17	0.86
LM15	4.3	59.5	■	■				■		■	■	■	■	■	■	6				●		1				●			●				5	1.17	0.86

Table 14. Qualitative Habitat Evaluation Index (QHEI) scores showing Good and Modified Habitat attributes at sites in the Little Miami River study area, 2012 (■ - good habitat attribute; ● - high influence modified attribute; ● - moderate influence modified attribute).

Site ID	River Mile	QHEI	Good Habitat Attributes										High Influence Modified Attributes					Moderate Influence Modified Attributes								Ratios							
			No Channelization	Boulder, Cobble, Gravel	Silt Free	Good-Excellent Development	Moderate-High Sinuosity	Moderate-Extensive Cover	Fast Flow w Eddies	Little to No Embeddedness	Max Depth > 40 cm	No Riffle Embeddedness	“Good” Habitat Attributes	Channelized or No Recovery	Silt/Muck Substrates	No Sinuosity	Sparse No Cover	Max Depths <40 cm	High Influence Poor Attributes	Recovering from Channelization	Mod-High Silt Cover	Sand Substrates (Boatable sites)	Hardpan Origin	Fair- Poor Development	Low Sinuosity	≤ 2 Cover Types	Intermittent Flow or Pools <20 cm	No Fast Current Types	Mod-Extensive Embeddedness	Mod-Extensive Riffle Embeddedness	No Riffle	Poor Habitat Attributes	Ration of Poor (High) to Good
<b>11-001 – Little Miami River</b>																																	
LM16	3	72.3	■	■		■		■	■	■	7					0			●				●				●	●	●		5	1.33	0.75
LM17	1.4	64	■	■				■			4					0		●	●			●	●				●	●		●	7	0.63	1.6
<b>[11-047] - Unnamed Trib to Little Miami River at RM 0.83</b>																																	
LM103	0.2	65	■	■		■	■	■	■		6				●	1		●									●	●		3	1.75	0.57	
<b>[11-066] - Unnamed Trib to Little Miami River at RM 13.1</b>																																	
LM21	1.5	63	■	■				■		■	6				●	1						●	●				●			3	1.75	0.57	
<b>[11-067] - Unnamed Trib to Little Miami River at RM 7.75</b>																																	
LM20	1.2	70	■	■		■	■	■		■	8					0						●	●				●			3	2.25	0.44	
<b>[11-068] - Unnamed Trib (RM 2.7) to Unnamed Trib to Little Miami River (RM13.1)</b>																																	
LM19	0.5	70	■	■				■		■	5				●	1			●		●	●				●			4	1.2	0.83		
<b>WAU 09-02 – O’Bannon Creek</b>																																	
<b>[11-010] - O’Bannon Creek (LMR RM 24.06)</b>																																	
LM37	1.8	71.3	■	■		■	■	■		■	8				●	1		●					●				●			3	2.25	0.44	
LM38	0.1	71	■	■		■		■		■	6					0		●			●	●				●	●			5	1.17	0.86	
<b>WAU 14-02 – Polk Run</b>																																	
<b>[11-009] - Polk Run (LMR RM 21.54)</b>																																	
LM46	3.2	82	■	■		■	■	■		■	8					0										●			1	4.5	0.22		

Table 14. Qualitative Habitat Evaluation Index (QHEI) scores showing Good and Modified Habitat attributes at sites in the Little Miami River study area, 2012 (■ - good habitat attribute; ● - high influence modified attribute; ● - moderate influence modified attribute).

Site ID	River Mile	QHEI	Good Habitat Attributes										High Influence Modified Attributes					Moderate Influence Modified Attributes										Ratios					
			No Channelization	Boulder, Cobble, Gravel	Silt Free	Good-Excellent Development	Moderate-High Sinuosity	Moderate-Extensive Cover	Fast Flow w Eddies	Little to No Embeddedness	Max Depth > 40 cm	No Riffle Embeddedness	"Good" Habitat Attributes	Channelized or No Recovery	Silt/Muck Substrates	No Sinuosity	Sparse No Cover	Max Depths <40 cm	High Influence Poor Attributes	Recovering from Channelization	Mod-High Silt Cover	Sand Substrates (Boatable sites)	Hardpan Origin	Fair- Poor Development	Low Sinuosity	≤ 2 Cover Types	Intermittent Flow or Pools <20 cm	No Fast Current Types	Mod-Extensive Embeddedness	Mod-Extensive Riffle Embeddedness	No Riffle	Poor Habitat Attributes	Ration of Poor (High) to Good
<b>[11-009] - Polk Run (LMR RM 21.54)</b>																																	
LM39	3	69.5		■		■	■	■		■		5				0	●										●	●	●		4	1.2	0.83
LM40	0.3	68	■	■		■	■	■		■	■	8				0											●				1	4.5	0.22
<b>[11-069] - Unnamed Trib to Polk Run at RM 1.79</b>																																	
LM41	2.5	71.5	■	■		■	■	■		■		7				●	1										●				1	4	0.25
LM44	0.4	78	■	■		■	■	■		■	■	8				0											●				1	4.5	0.22
<b>[11-070] - Unnamed Trib to Polk Run at RM 0.70</b>																																	
LM42	2	76.5	■	■		■	■	■		■	■	8				0											●				1	4.5	0.22
LM43	0.7	75	■	■		■	■	■		■	■	8				0											●				1	4.5	0.22
<b>[11-071] - Unnamed Trib (RM 1.77) to Unnamed Trib to Polk Run</b>																																	
LM45	0.2	73	■	■		■	■	■		■		7				●	1										●				1	4	0.25
<b>WAU 14-01 – Sycamore Creek</b>																																	
<b>[11-007] - Sycamore Creek (LMR RM 19.2)</b>																																	
LM47	3.5	60.8		■		■	■	■		■		5				0	●										●	●	●		4	1.2	0.83
LM48	2.4	73	■	■		■	■	■		■	■	8				0											●				1	4.5	0.22
LM49	1.6	72.5	■	■		■	■	■		■	■	8				0											●				1	4.5	0.22
LM50	0.7	65.3	■	■		■	■	■		■	■	8				●	1		●		●	●					●	●			5	1.5	0.67
LM51	0.5	59.3						■		■	■	4				●	1	●		●	●	●					●				5	0.83	1.2

Table 14. Qualitative Habitat Evaluation Index (QHEI) scores showing Good and Modified Habitat attributes at sites in the Little Miami River study area, 2012 (■ - good habitat attribute; ● - high influence modified attribute; ● - moderate influence modified attribute).

Site ID	River Mile	QHEI	Good Habitat Attributes										High Influence Modified Attributes				Moderate Influence Modified Attributes										Ratios																												
			No Channelization	Boulder, Cobble, Gravel	Silt Free	Good-Excellent Development	Moderate-High Sinuosity	Moderate-Extensive Cover	Fast Flow w Eddies	Little to No Embeddedness	Max Depth > 40 cm	No Riffle Embeddedness	“Good” Habitat Attributes	Channelized or No Recovery	Silt/Muck Substrates	No Sinuosity	Sparse No Cover	Max Depths <40 cm	High Influence Poor Attributes	Recovering from Channelization	Mod-High Silt Cover	Sand Substrates (Boatable sites)	Hardpan Origin	Fair- Poor Development	Low Sinuosity	≤ 2 Cover Types	Intermittent Flow or Pools <20 cm	No Fast Current Types	Mod-Extensive Embeddedness	Mod-Extensive Riffle Embeddedness	No Riffle	Poor Habitat Attributes	Ratio of Poor (High) to Good	Ratio of Poor (All) to Good																					
<b>[11-007] - Sycamore Creek (LMR RM 19.2)</b>																							LM52	0.2	68	■	■	■	■	■	■	■	■	■	7		●	1	●	●		●	●					●	●	●			7	1	1
<b>[11-008] - North Branch Sycamore Creek</b>																							LM57	5	77.3	■	■		■	■	■	■	■	■	9			0		●													1	5	0.2
LM58	4.3	83	■	■		■	■	■	■	■	■	■	9			0															0	10	0.1																						
LM59	2.1	88	■	■		■	■	■	■	■	■	■	9			0														0	10	0.1																							
LM60	0.5	72.8	■	■		■	■	■		■	■	■	8			0										●			1	4.5	0.22																								
LM61	0.1	86	■	■		■	■	■		■	■	■	8			0										●			1	4.5	0.22																								
<b>[11-049] - Trib To Sycamore Cr. (RM 1.12)</b>																							LM55	1	73.5	■	■		■	■	■		■	■	7			0										●	●			2	2.67	0.38	
LM56	0.3	74	■	■		■	■	■		■	■	■	8			0											●			1	4.5	0.22																							
LM53	0.1	66	■	■	■	■	■		■	■	■	■	9		●	1			●										1	5	0.2																								
<b>[11-073] - Unnamed Trib to N Branch Sycamore Creek at RM 5.4</b>																							LM63	0.6	71	■	■		■	■		■	■	■	7			0				●						●			2	2.67	0.38		
<b>[11-074] - Unnamed Trib to N Br Sycamore Cr at RM 0.75</b>																							LM64	1.4	76	■	■		■	■	■		■	■	7		●	1										●			1	4	0.25		
<b>[11-084] - Trib to North Branch Sycamore Creek at RM 2.33</b>																							LM62	1.8	76	■	■		■	■	■		■	■	8			0										●			1	4.5	0.22		

Table 14. Qualitative Habitat Evaluation Index (QHEI) scores showing Good and Modified Habitat attributes at sites in the Little Miami River study area, 2012 (■ - good habitat attribute; ● - high influence modified attribute; ● - moderate influence modified attribute).

Site ID	River Mile	QHEI	Good Habitat Attributes										High Influence Modified Attributes					Moderate Influence Modified Attributes							Ratios											
			No Channelization	Boulder, Cobble, Gravel	Silt Free	Good-Excellent Development	Moderate-High Sinuosity	Moderate-Extensive Cover	Fast Flow w Eddies	Little to No Embeddedness	Max Depth > 40 cm	No Riffle Embeddedness	"Good" Habitat Attributes	Channelized or No Recovery	Silt/Muck Substrates	No Sinuosity	Sparse No Cover	Max Depths <40 cm	High Influence Poor Attributes	Recovering from Channelization	Mod-High Silt Cover	Sand Substrates (Boatable sites)	Hardpan Origin	Fair- Poor Development	Low Sinuosity	≤ 2 Cover Types	Intermittent Flow or Pools <20 cm	No Fast Current Types	Mod-Extensive Embeddedness	Mod-Extensive Riffle Embeddedness	No Riffle	Poor Habitat Attributes	Ratio of Poor (High) to Good	Ratio of Poor (All) to Good		
<b>WAU 13-05 – East Fork Little Miami River</b>																																				
<i>[11-100] - East Fork Little Miami River (LMR RM 11.5)</i>																																				
LM25	19.5	85.5	■	■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	0	10	0.1	
LM26	15	89.3	■	■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	0	10	0.1	
LM27	13.7	80.5	■	■		■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	0	1	4.5	0.22
LM28	13.2	80.5	■	■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	0	10	0.1	
LM29	11	81	■	■		■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	0	1	4.5	0.22
LM30	9.1	93	■	■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	0	10	0.1	
LM31	5.6	71.5	■	■			■	■			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	0	6	0.86	1.17
LM32	4.3	74	■	■				■			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	0	6	0.86	1.17
LM34	2	69.8	■	■				■	■			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	0	6	0.86	1.17
LM35	1	81.5	■	■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	0	2	3.33	0.3
LM36	0.7	63	■	■				■			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	0	7	0.63	1.6
<b>WAU 14-05 – Dry Run</b>																																				
<i>[11-005] - Dry Run (LMR RM 7.54)</i>																																				
LM70	5.6	62.5	■	■			■	■			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	0	2	2.67	0.38	
LM66	4.1	56.5		■				■			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	1	3	1.5	0.67	



Table 14. Qualitative Habitat Evaluation Index (QHEI) scores showing Good and Modified Habitat attributes at sites in the Little Miami River study area, 2012 (■ - good habitat attribute; ● - high influence modified attribute; ● - moderate influence modified attribute).

Site ID	River Mile	QHEI	Good Habitat Attributes										High Influence Modified Attributes					Moderate Influence Modified Attributes										Ratios					
			No Channelization	Boulder, Cobble, Gravel	Silt Free	Good-Excellent Development	Moderate-High Sinuosity	Moderate-Extensive Cover	Fast Flow w Eddies	Little to No Embeddedness	Max Depth > 40 cm	No Riffle Embeddedness	"Good" Habitat Attributes	Channelized or No Recovery	Silt/Muck Substrates	No Sinuosity	Sparse No Cover	Max Depths <40 cm	High Influence Poor Attributes	Recovering from Channelization	Mod-High Silt Cover	Sand Substrates (Boatable sites)	Hardpan Origin	Fair- Poor Development	Low Sinuosity	≤ 2 Cover Types	Intermittent Flow or Pools <20 cm	No Fast Current Types	Mod-Extensive Embeddedness	Mod-Extensive Riffle Embeddedness	No Riffle	Poor Habitat Attributes	Ratio of Poor (High) to Good
LM67	2.5	76.5	■	■		■	■	■	■	■	■	9					0														0	10	0.1
<b>WAU 14-03 – Duck Creek</b>																																	
<i>[11-004] - Duck Creek (LMR RM 3.87)</i>																																	
LM71	6	20			■							1	●	●	●	●	4					●	●	●			●	●	●	6	0.29	3.5	
LM78	5.2	18.5			■							1	●	●	●	●	4					●	●	●			●	●	●	5	0.33	3	
LM72	4.6	40		■							■	2	●	●	●	●	2		●			●	●			●	●	●	●	6	0.43	2.33	
LM73	4.4	18.5										0	●	●	●	●	3					●	●	●			●	●	●	6	0.14	7	
LM75	3.3	22.5										0	●	●	●	●	3					●	●	●			●	●	●	6	0.14	7	
LM76	2.9	33.5										0	●	●	●	●	3	●				●	●	●			●	●	●	6	0.14	7	
LM77	1.8	48		■								1	●	●	●	●	3	●				●	●			●	●	●	6	0.29	3.5		
<i>[11-051] - East Fork Duck Creek</i>																																	
LM85	1.9	59	■	■				■		■	■	5					0		●			●	●			●	●	●	6	0.86	1.17		
LM84	0.5	39		■								1	●	●	●	●	3	●	●			●	●			●	●	●	●	6	0.29	3.5	
LM74	0.15	51	■	■				■		■		4					0		●			●	●			●	●	●	6	0.71	1.4		
<i>[11-075] - Unnamed Trib to Duck Creek at RM 4.8</i>																																	
LM80	0.2	36.5		■								1	●	●	●	●	3	●				●	●			●	●	●	6	0.29	3.5		
<i>[11-076] - Little Duck Creek</i>																																	
LM86	2.7	46.5		■						■		2		●			1	●	●			●	●			●	●	●	7	0.38	2.67		

Table 14. Qualitative Habitat Evaluation Index (QHEI) scores showing Good and Modified Habitat attributes at sites in the Little Miami River study area, 2012 (■ - good habitat attribute; ● - high influence modified attribute; ● - moderate influence modified attribute).

Site ID	River Mile	QHEI	Good Habitat Attributes										High Influence Modified Attributes				Moderate Influence Modified Attributes										Ratios					
			No Channelization	Boulder, Cobble, Gravel	Silt Free	Good-Excellent Development	Moderate-High Sinuosity	Moderate-Extensive Cover	Fast Flow w Eddies	Little to No Embeddedness	Max Depth > 40 cm	No Riffle Embeddedness	"Good" Habitat Attributes	Channelized or No Recovery	Silt/Muck Substrates	No Sinuosity	Sparse No Cover	Max Depths <40 cm	High Influence Poor Attributes	Recovering from Channelization	Mod-High Silt Cover	Sand Substrates (Boatable sites)	Hardpan Origin	Fair- Poor Development	Low Sinuosity	≤ 2 Cover Types	Intermittent Flow or Pools <20 cm	No Fast Current Types	Mod-Extensive Embeddedness	Mod-Extensive Riffle Embeddedness	No Riffle	Poor Habitat Attributes
<b>[11-076] - Little Duck Creek</b>																																
LM87	2.6	48.8	■	■		■			■		4			●		1		●				●				●	●	●		5	0.83	1.2
LM90	2.4	59	■	■		■	■	■			5				●	1						●	●			●	●	●		5	1	1
LM89	1.4	37		■						■	2			●	●	2	●	●				●				●	●		●	6	0.43	2.33
<b>WAU 14-06 Clough Creek</b>																																
<b>[11-002] - Clough Creek (LMR RM 3.36)</b>																																
LM99	4.6	56.3	■	■		■	■	■		■	6			●	●	2						●								2	2.33	0.43
LM95	3.2	56.5	■	■		■			■	■	5			●	●	2						●	●							3	1.5	0.67
LM96	3	57.8	■	■		■	■	■	■	■	7			●		1						●								2	2.67	0.38
LM97	1.2	65	■	■		■		■	■	■	7			●		1					●									3	2	0.5
LM98	0.6	57.5	■	■	■				■	■	6			●		1					●	●	●							4	1.4	0.71
<b>[11-003] - McCullough Run (LMR RM 3.7)</b>																																
LM94	1.3	37							■		1	●	●	●	●	4						●					●	●	●	4	0.4	2.5
<b>11-078 - Unnamed Trib to McCullough Run at RM 1.08</b>																																
LM93	1.5	56.8		■				■		■	4			●	●	2	●					●	●				●	●	●	6	0.71	1.4
<b>[11-079] - Trib to Unnamed Trib to Clough Creek at RM3.06</b>																																
LM101	1.05	58.8	■	■					■	■	5			●		1						●	●				●			3	1.5	0.67

Table 14. Qualitative Habitat Evaluation Index (QHEI) scores showing Good and Modified Habitat attributes at sites in the Little Miami River study area, 2012 (■ - good habitat attribute; ● - high influence modified attribute; ● - moderate influence modified attribute).

Site ID	River Mile	QHEI	Good Habitat Attributes										High Influence Modified Attributes					Moderate Influence Modified Attributes										Ratios						
			No Channelization	Boulder, Cobble, Gravel	Silt Free	Good-Excellent Development	Moderate-High Sinuosity	Moderate-Extensive Cover	Fast Flow w Eddies	Little to No Embeddedness	Max Depth > 40 cm	No Riffle Embeddedness	“Good” Habitat Attributes	Channelized or No Recovery	Silt/Muck Substrates	No Sinuosity	Sparse No Cover	Max Depths <40 cm	High Influence Poor Attributes	Recovering from Channelization	Mod-High Silt Cover	Sand Substrates (Boatable sites)	Hardpan Origin	Fair- Poor Development	Low Sinuosity	≤ 2 Cover Types	Intermittent Flow or Pools <20 cm	No Fast Current Types	Mod-Extensive Embeddedness	Mod-Extensive Riffle Embeddedness	No Riffle	Poor Habitat Attributes	Ration of Poor (High) to Good	Ration of Poor (All) to Good
<b>[11-081] - UT at RM 0.95 to UT to Clough Creek at RM 3.06</b>																																		
LM100	0.2	60.8	■	■		■			■	■	■	6				●	1						●	●								3	1.75	0.57
<b>WAU 12-08 Five Mile Creek – Ohio River</b>																																		
<b>[10-001] - Five Mile Creek</b>																																		
LM107	2.4	67.5		■		■	■	■	■	■	■	7				●	1	●														1	4	0.25
LM108	0.1	70.8	■	■		■		■	■		■	7					0						●					●				2	2.67	0.38
<b>10-002 - Eight Mile Creek</b>																																		
LM105	2.1	71	■	■	■	■	■	■		■		8				●	1							●								1	4.5	0.22
<b>[10-130] - Trib to Eight Mile Creek at RM 1.01</b>																																		
LM106	0.1	71.5	■	■	■	■	■	■		■		8				●	1							●								1	4.5	0.22
<b>[10-537] - Four Mile Creek</b>																																		
LM104	0.8	66		■		■	■	■	■	■	■	8					0	●	●													2	3	0.33
<b>WAU 08-03 Turtle Creek</b>																																		
<b>[11-021] - Turtle Creek</b>																																		
RF08	6.1	69	■	■		■		■	■	■	■	7				●	1		●				●			●	●				4	1.6	0.63	
<b>[11-022] - Dry Run</b>																																		
RF09	1.8	63	■	■		■	■			■	■	6					0		●			●				●	●				4	1.4	0.71	

diverse and high quality habitat attributes to complete and sustain critical parts of their life cycle (e.g., spawning).

#### *WAU 09-02 – O’Bannon Creek*

The habitat conditions in O’Bannon Creek (11-010) at sites LM37 and LM38 were in very good condition on the basis of QHEI scores (71.3 and 71, respectively). These habitat conditions are clearly supportive of the expected biological assemblages of a WWH aquatic life use. Habitat attributes that are negative include moderate silt cover at both sites and moderate embeddedness at the downstream site (Table 14).

#### *WAU 14-02 - Polk Run*

All sites sampled in the Polk Run watershed had good-excellent habitat based on QHEI scores (range 68-82). Potential problems are not related to a lack of physical habitat. The only consistent negative habitat attribute in this subwatershed was the lack of fast current velocity that was probably accentuated because of the dry conditions during the summer of 2012 (Table 14).

#### *WAU 14-01 - Sycamore Creek*

Only one site in Sycamore Creek watershed had fair habitat with all of the other 16 having either good (10 sites) or excellent habitat (6 sites). Flow, rather than habitat is a more limiting natural factor in these streams. Lower Sycamore Creek has a few sites that have been channel modified and retain some poor habitat attributes including sparse cover, moderate siltation and embeddedness (Table 14).

#### *WAU 13-05 - East Fork Little Miami River*

Physical habitat conditions were generally considered “excellent” through the 20 mile reach that was assessed although sites in the lower six miles had elevated silt cover and substrate embeddedness (Table 14) which can be problematic for EWH systems. A correlation of QHEI vs. IBI in this reach ( $r^2 = 0.67$ ; Figure 22) suggests that much of the variation in IBI in the East Fork is correlated with habitat conditions, although the range of habitat quality is typically associated with IBI scores in the exceptional range ( $IBI \geq 48-50$ ). There was a distinct difference between the first and second sampling passes likely due to the Harsha Lake draw-down during August 20-22. The habitat-IBI correlation generally reflects the general pattern of better habitat supporting higher quality fish assemblages.

#### *WAU 14-04 – Duck Creek*

Duck Creek is the most physical habitat limited watershed in the lower Little Miami River study area. Stream habitat was not listed as a cause of impairment in the LRW reaches of Duck Creek because it is already factored in through the application of the non-fishable LRW ALUSE designation. Impairment is related to acute impacts of CSO and urban runoff that are perhaps accentuated by the concrete streams channels. Nearly all of the sites in the Duck Creek watershed lacked any fast current (Table 14) and this likely is an important stress on the biological assemblages and accentuated by the especially low flows in 2012. The East Fork Duck Creek had natural channels at two of three sites (Table 14), so we concluded the LRW

designation was likely in error and based either on limited data or an over-extrapolation of the results from the lower mainstem. Even with the natural channels, the urban nature of the watershed resulted in moderate to heavy silt cover, moderate embeddedness, and fair-poor riffle development. These conditions were similar to those found in Little Duck Creek where there was widespread embeddedness of the urban influenced stream channels.

#### *WAU 14-06 - Clough Creek*

The streams sampled in Clough Creek were all small headwater streams (0.9-8 mi.<sup>2</sup>). With the exception of McCullough Run (LM94, 11-003, QHEI = 37) all streams had natural channels and had habitat considered “good” for small headwater streams (Table A; QHEI scores > 55). Other than McCullough Run, none of the streams had issues with sedimentation and abnormal amounts of silt. Most issues were related to flow and the urban nature of the watershed.

#### *WAU 12-08 - Nine mile Creek*

Physical habitat conditions for the four streams (five stations) sampled in this watershed were also considered to be good (QHEI range 66-71.5) and capable of supporting WWH aquatic assemblages or PHWH classes in the primary headwaters (Table 14). Negative habitat attributes were few (Table 14) and scattered and do not appear to be limiting to aquatic life in any stream sampled.

#### *WAU 08-03 – Turtle Creek (Reference Sites)*

During 2012 habitat condition based on the QHEI reference sites (RF08 and RF09) was good (Table 14; QHEI=68 and 63, respectively). A third headwater reference site (RF10 on Newman Run) was dry when visited and a QHEI score was not possible. Previous assessments by Ohio EPA found an exceptional fish assemblage which was a testament to the dry conditions during summer of 2012. Turtle Creek and Dry Run did have moderate siltation and substrate embeddedness which indicates these streams are likely affected by agricultural and/or urban runoff (Table 14).

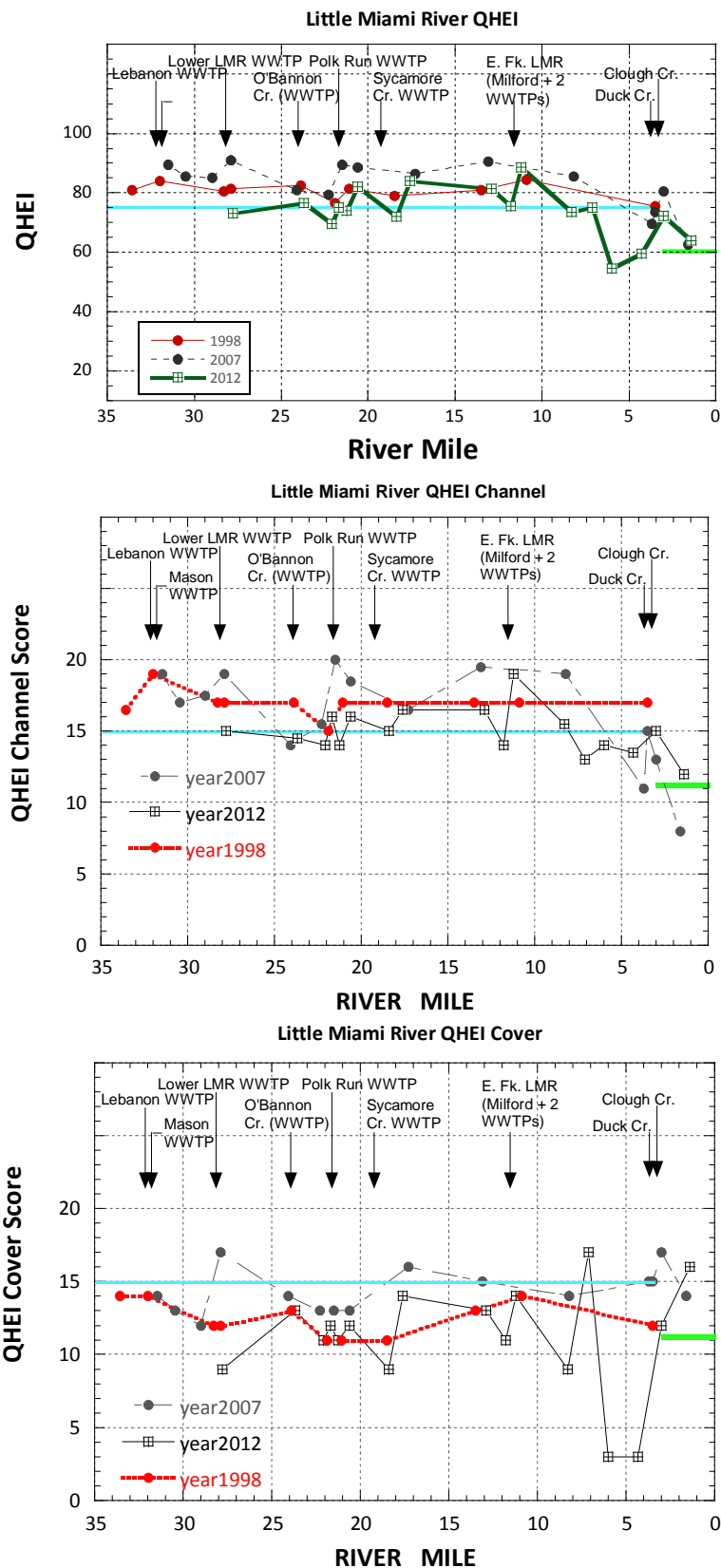


Figure 21. Plot of QHEI (top), QHEI Channel Score (middle) and QHEI Cover Score (bottom) vs. river mile in the lower Little Miami River for 1998, 2007 and 2012. The blue lines represent thresholds generally indicative of exceptional quality QHEI and habitat attributes.

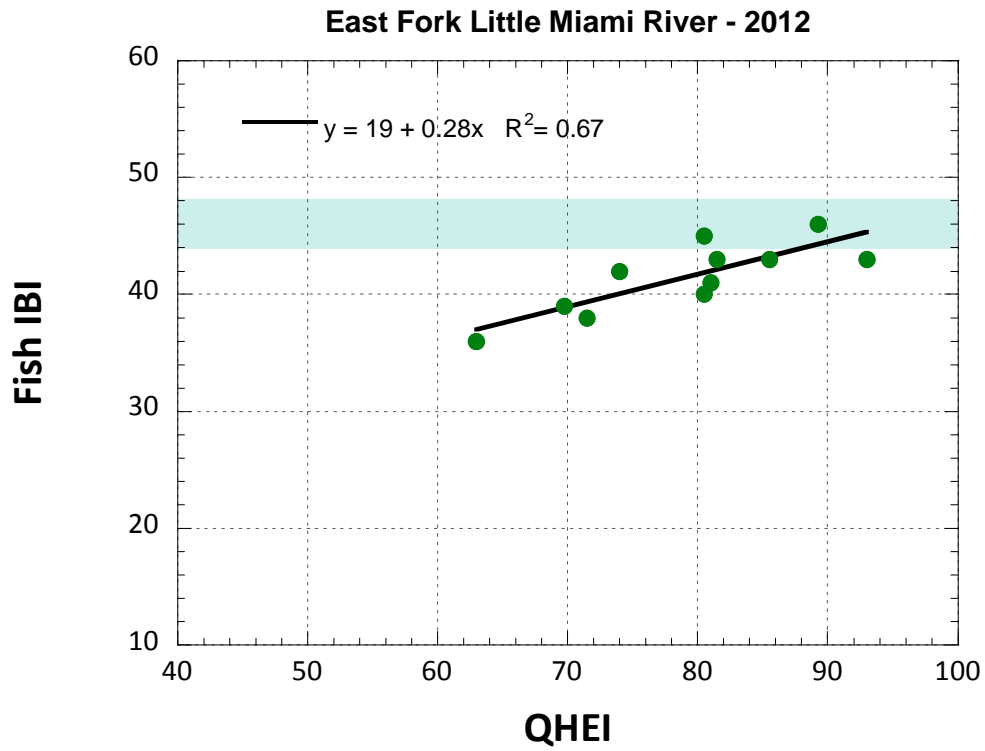


Figure 22. Correlation of QHEI with IBI in the lower East Fork Little Miami River downstream from the Harsha Reservoir during 2012. The blue shaded bar is the range from the IBI EWH biocriterion and the range of nonsignificant departure.

### Biological Assemblages

Fish and macroinvertebrates were sampled at all wetted sites in 2012. These assemblages were used to assess 93 of the 108 sites in the Little Miami River watersheds watershed. The remaining 15 were assessed using the Primary Headwater Habitat methodology. Two additional sites were dry and these were assessed with the HHEI.

#### **Fish Assemblage Results 2012**

This section focuses on the condition and status of fish assemblages in each of the Little Miami River watersheds. This assessment is based on the presence and relative abundance of key fish species and traits or metrics that are expected in healthy or reference streams. Key fish assemblage results are listed in Table 15 and summarized in Table 17. Overall narrative fish assemblage condition ranged from fishless or very poor to excellent. Of the 86 sites with fish assemblage data that were not assessed as PHWH or were not dry, 79.1% failed to attain the IBI biocriteria threshold for WWH or LRW as applicable, which included 24.4% of sites that partially attained (either IBI or MIwb attained, but the other index did not). Eight sites with an existing WWH (7) or EWH (1) use were dry when sampling was attempted. Of these we did not assess two (ephemeral flow conditions), but considered 6 sites as non-attaining because lack of flow was considered partly related to urban impacts.

*Table 15. Fish assemblage sites classified by aquatic life use and attainment or classification status during the 2012 lower Little Miami River survey.*

Aquatic Life Use	Fish Assemblage Attainment Status			
	N	Full	Partial	Non
EWH	26	4	17	5
WWH	53	14	4	35
WWH (dry)	8	NA	NA	6
LWR	7	2	NA	5
<b>Primary Headwater Habitat Classification</b>				
PHW3A	9			
PHW2	7			

#### *LRAU 90-02 – Lower Little Miami River*

In the Little Miami River Mainstem, the partial attainment was due to the failure of the IBI to attain the EWH criterion (Figure 23, top) while the MIwb met the EWH biocriterion at all but the lower two sites (Figure 23, bottom). The difference in the IBI scores between 2007 and 2012 is biologically significant and strongly related to the loss or decline of intolerant fish species (Figure 24, top). The EWH character of the Little Miami is strongly dependent on the presence and abundance of sensitive and intolerant species. Compared to 2007, when most sites across the same reach fully attained all of the EWH biocriteria, there has been a substantial change in the distribution and abundance of intolerant and sensitive fish species; these changes are summarized in Table 16. Figure 24 illustrates the difference in the number of intolerant species



in the lower Little Miami River between 2007 and 2012. Between 2007 and 2012, sites in the Little Miami River in this study reach declined from 5 of 1 or 3 of 1, at most sites. It should be noted that the three sites that still fully attained the EWH biocriteria in 2012 were sites with the highest quality habitat as measured by the QHEI (82, 81.5, and 88.5).

Of the seven small direct tributaries to the Little Miami River that were sampled, five were very small and classified as PHWII or IIIa. Two were recommended as WWH (11-047, LM103; 11-066, LM21) and both of these had fish IBI score that attained the WWH biocriterion for headwater streams. Site LM103 had an IBI of 52 and was considered to be somewhat influenced by its close proximity to the mainstem.

*Table 16. Changes in fish species occurrence or abundance in the lower Little Miami River mainstem between 2007 and 2012.*

<b>Not Collected (Absent)</b>	<b>Declined in Abundance</b>	<b>Increased in Abundance</b>
Variegate darter	Black redhorse	Longear sunfish
Blue sucker	Silver redhorse	Bluegill sunfish
Highfin carpsucker	Golden redhorse	Spotted bass
Suckermouth minnow	Northern hog sucker	Smallmouth bass
Rosyface shiner	Smallmouth redhorse	Bluntnose minnow
Striped shiner	Silver shiner	Emerald shiner
River shiner	Spotfin shiner	Gizzard shad
Northern madtom	Bullhead minnow	Longear sunfish
	Stoneroller	
	Stonecat	
	Mountain madtom	
	Slenderhead darter	
	Logperch	
	Greenside darter	
	Banded darter	
	Rainbow darter	

*WAU 13-05 - East Fork Little Miami River*

The fish assemblage condition of the East Fork of the Little Miami varied substantially between the first (Aug) and second (Oct) passes with the October IBIs being lower at every site (Figure 25). Table D summarizes key changes in IBI fish metrics between these two time periods. In general, total species, sensitive species, sucker species, sunfish species and relative weight and abundance were higher in August than in October. Reservoir draw-down and discharge of warm water and altered flows very likely explains the difference in fish assemblage condition between these samples (see discussion of temperature impacts).

*WAU 09-02 - O'Bannon Creek*

The fish assemblage at two sites in O'Bannon Creek attained the WWH except for the lower site MIwb that may have been depressed by runoff affects from this urbanizing area. The downstream site is also below the O'Bannon Creek wastewater treatment plant.

**Table 17. Key biological and habitat variables for fish and macroinvertebrates in the Little Miami River study area, 2012.**

Site ID	Site RM Range	Drain. Area (mi. <sup>2</sup> )	Fish Statistics										Macroinvertebrate Statistics				Aq. Life Use
			QHEI	Total Sp.	Sens. Sp.	HW Sp.	% Pio neer	% Tol-erant	Rel. Numb er	% DELT	IBI	Mlwb	ICI	Narr <sup>1</sup>	Qual EPT	Cold Water taxa	
<b>LRAU 90-02 – Little Miami River</b>																	
<b>11-001 – Little Miami River</b>																	
LM01	27.80 - 28.00	1070.00	73.0	22.0	8.0	0.0	2.63	2.63	796.6	1.57	42.0	10.57	44.0		19.0	0.0	EWH
LM02	23.70 - 24.90	1150.00	76.5	23.5	9.5	0.0	8.60	8.60	658.0	0.31	43.0	10.02	48.0		12.0	0.0	EWH
LM03	22.10 - 22.80	1150.00	69.5	19.0	7.0	0.0	5.87	5.99	613.0	0.48	36.0	9.14	50.0		17.0	0.0	EWH
LM04	21.70 - 21.80	1150.00	75.0	22.5	10.0	0.0	2.60	2.76	501.0	0.32	41.0	10.09	32.0 <sup>b</sup>		8.0	0.0	EWH
LM05	21.25 - 21.45	1160.00	74.0	22.5	8.5	0.0	9.96	10.13	708.0	0.86	42.0	9.67	42.0		14.0	0.0	EWH
LM06	19.30 - 20.60	1160.00	82.0	25.5	9.5	0.0	13.42	13.72	988.0	0.30	44.0	9.99	42.0		12.0	0.0	EWH
LM07	18.10 - 18.60	1190.00	72.0	23.5	9.0	0.0	22.37	22.61	902.0	0.96	39.0	9.92	44.0		15.0	0.0	EWH
LM08	17.10 - 17.60	1190.00	84.0	22.0	8.5	0.0	5.54	5.85	699.0	0.19	42.0	10.20	42.0		13.0	0.0	EWH
LM09	12.90 - 13.20	1200.00	81.5	22.0	8.0	0.0	0.50	0.70	939.0	0.35	44.0	9.53	50.0		15.0	0.0	EWH
LM10	11.50 - 12.40	1210.00	75.5	23.0	9.0	0.0	10.81	10.97	1075.0	0.11	42.0	9.93	44.0		14.0	0.0	EWH
LM11	10.90 - 11.20	1710.00	88.5	22.5	6.0	0.0	2.31	2.85	595.1	0.41	44.0	9.89	46.0		18.0	0.0	EWH
LM12	8.00 - 8.30	1710.00	73.5	22.5	6.5	0.0	6.82	8.22	434.0	0.56	41.0	9.62	0.0		16.0	0.0	EWH
LM13	6.80 - 7.30	1720.00	75.0	21.5	5.5	0.0	7.63	9.71	783.0	0.36	40.0	9.95	48.0		15.0	0.0	EWH
LM14	5.30 - 6.00	1720.00	54.5	16.0	6.0	0.0	1.81	1.95	483.0	0.00	36.0	7.86	42.0		13.0	0.0	EWH
LM15	4.00 - 4.30	1730.00	59.5	19.5	6.5	0.0	6.73	6.88	797.0	0.15	35.0	8.48	44.0		22.0	0.0	EWH
LM16	3.00 - 3.50	1750.00	72.3	21.0	4.5	0.0	1.85	2.80	887.0	0.06	39.0	9.67	42.0		14.0	0.0	EWH
LM17	1.40 - 1.60	1760.00	64.0	15.0	4.0	0.0	3.28	3.28	422.0	0.14	36.0	8.17	18.0		0.0	0.0	WWH
<b>[11-047] - Unnamed Trib to Little Miami River at RM 0.83</b>																	
LM103	0.10 - 0.20	1.70	65.0	16.0	6.0	1.0	53.89	55.09	668.0	0.30	52.0	0.00	0.0	P	2.0	0.0	WWH
<b>[11-066] - Unnamed Trib to Little Miami River at RM 13.1</b>																	
LM21	1.50	3.00	63.0	6.0	1.0	2.0	15.08	61.81	398.0	0.00	36.0	0.00	0.0	G	7.0	1.0	WWH
<b>[11-067] - Unnamed Trib to Little Miami River at RM 7.75</b>																	
LM20	1.20	0.50	70.0	2.0	0.0	1.0	75.45	100.00	220.0	0.00	24.0	0.00	0.0		5.0	0.0	PHW 3A
<b>[11-068] - Unnamed Trib (RM 2.7) to Unnamed Trib to Little Miami River (RM13.1)</b>																	
LM19	0.50	0.60	12.0	1.0	0.0	0.0	0.00	0.00	0.0	0.00	12.0	0.00	0.0		0.0	0.0	PHW 3A
<b>[11-082] - Unnamed Trib to Little Miami River at 24.06</b>																	
LM23	0.20	1.60	NA	DRY	0.0	0.0	0.00	0.00	0.0	0.00	DRY	0.00	0.0		0.0	0.0	PHW 2
<b>[11-083] - Unnamed Trib to Little Miami River at 21.8</b>																	
LM24	0.10	0.80	NA	DRY	0.0	0.0	0.00	0.00	0.0	0.00	DRY	0.00	0.0		0.0	0.0	PHW 2
<b>[11-085] - Unnamed Trib to Little Miami River at 13.8</b>																	
LM22	0.30	1.20	NA	DRY	0.0	0.0	0.00	0.00	0.0	0.00	DRY	0.00	0.0		0.0	0.0	PHW 2

*Table 17. Key biological and habitat variables for fish and macroinvertebrates in the Little Miami River study area, 2012.*

Site ID	Site RM Range	Drain. Area (mi. <sup>2</sup> )	Fish Statistics										Macroinvertebrate Statistics				Aq. Life Use
			QHEI	Total Sp.	Sens. Sp.	HW Sp.	% Pioneer	% Tolerant	Rel. Number	% DELT	IBI	Mlwb	ICI	Narr <sup>1</sup>	Qual EPT	Cold Water taxa	
<b>WAU 09-02 – O’Bannon Creek</b>																	
<b>[11-010] - O’Bannon Creek (LMR RM 24.06)</b>																	
LM37	1.80 - 1.90	54.30	71.3	25.0	12.0	1.0	18.37	17.63	783.8	0.07	52.0	9.26	34.0		9.0	1.0	WWH
LM38	0.10	59.00	71.0	20.0	8.5	0.5	20.61	22.55	423.8	0.00	44.0	7.34	0.0	G	32.0	0.0	WWH
<b>WAU 14-02 – Polk Run</b>																	
<b>[11-009] - Polk Run (LMR RM 21.54)</b>																	
LM46	3.20 - 3.90	2.60	82.0	8.0	0.0	1.0	75.00	86.89	488.0	0.00	28.0	0.00	0.0	MG	5.0	0.0	WWH
LM39	2.90 - 3.10	2.80	69.5	9.0	0.0	2.0	64.49	80.61	856.0	0.70	32.0	0.00	0.0	G	6.0	1.0	WWH
LM40	0.30	10.00	68.0	20.0	8.0	1.0	20.86	21.37	2742.0	0.00	52.0	0.00	28.0	G	7.0	0.0	WWH
<b>[11-069] - Unnamed Trib to Polk Run at RM 1.79</b>																	
LM41	2.50 - 2.60	1.30	71.5	7.0	0.0	1.0	48.48	60.10	792.0	0.25	36.0	0.00	0.0	MG	5.0	1.0	WWH
LM44	0.40	2.40	78.0	8.0	0.0	1.0	71.74	88.30	906.0	0.00	30.0	0.00	0.0	G	7.0	0.0	WWH
<b>[11-070] - Unnamed Trib to Polk Run at RM 0.70</b>																	
LM42	1.90 - 2.00	0.80	76.5	4.0	0.0	0.0	82.25	82.25	552.0	0.00	30.0	0.00	0.0	F	4.0	0.0	WWH
LM43	0.70 - 0.80	2.50	75.0	5.0	0.0	1.0	53.44	69.64	494.0	0.40	28.0	0.00	0.0	MG	5.0	0.0	WWH
<b>[11-071] - Unnamed Trib (RM 1.77) to Unnamed Trib to Polk Run</b>																	
LM45	0.20	1.10	73.0	5.0	0.0	1.0	68.03	71.00	538.0	0.00	30.0	0.00	0.0	G	6.0	1.0	WWH
<b>WAU 14-01 – Sycamore Creek</b>																	
<b>[11-007] - Sycamore Creek (LMR RM 19.2)</b>																	
LM47	3.50 - 3.60	3.40	60.8	4.0	0.0	1.0	54.18	86.14	1890.0	0.00	26.0	0.00	0.0	F	3.0	0.0	WWH
LM48	2.40	4.80	73.0	3.0	0.0	1.0	52.66	76.77	1128.0	0.00	26.0	0.00	0.0	MG	5.0	0.0	WWH
LM49	1.50 - 1.60	6.60	72.5	5.0	0.0	1.0	35.84	71.39	692.0	1.16	24.0	0.00	24.0	G	9.0	0.0	WWH
LM50	0.70 - 1.10	12.50	65.3	11.0	2.0	2.0	50.30	59.76	656.0	0.00	28.0	0.00	24.0	MG	7.0	0.0	WWH
LM51	0.30 - 0.50	22.80	59.3	18.5	8.5	1.0	28.64	32.41	314.3	0.48	42.0	7.30	24.0	G	11.0	0.0	WWH
LM52	0.10 - 0.20	23.30	68.0	19.0	8.5	1.0	4.57	5.01	343.5	0.23	51.0	7.85	0.0	MG	8.0	0.0	WWH
<b>[11-008] - North Branch Sycamore Creek</b>																	
LM57	5.00 - 5.20	2.90	77.3	7.0	0.0	1.0	36.54	42.05	1308.0	0.00	34.0	0.00	0.0	G	6.0	0.0	WWH
LM58	3.70 - 4.30	4.40	83.0	8.0	0.0	2.0	22.18	33.96	2886.0	1.11	36.0	0.00	0.0	G	7.0	0.0	WWH
LM59	2.00 - 2.10	7.30	88.0	11.0	1.0	2.0	36.12	37.45	2104.0	0.10	36.0	0.00	0.0	G	9.0	0.0	WWH
LM60	0.40 - 0.50	9.80	72.8	11.0	2.0	2.0	40.76	51.59	5226.0	0.00	34.0	0.00	34.0		9.0	0.0	WWH
LM61	0.05 - 0.10	10.00	86.0	24.0	8.0	2.0	29.54	33.74	1808.0	0.00	54.0	0.00	36.0		8.0	0.0	WWH
<b>[11-049] - Trib To Sycamore Cr. (RM 1.12)</b>																	
LM55	0.90 - 1.00	5.30	73.5	3.0	0.0	0.0	45.01	45.01	742.0	5.12	24.0	0.00	0.0	G	7.0	0.0	WWH
LM56	0.20 - 0.30	5.60	74.0	6.0	0.0	2.0	47.90	52.74	1240.0	0.00	32.0	0.00	0.0	G	8.0	0.0	WWH
LM53	0.10	5.70	66.0	5.0	0.0	2.0	61.39	68.65	1378.0	0.00	24.0	0.00	22.0	G	8.0	0.0	WWH
<b>[11-072] - Unnamed Trib to N Branch Sycamore Creek at RM 5.3</b>																	
LM65	0.75 - 1.10	0.20	NA	DRY	0.0	0.0	0.00	0.00	0.0	0.00	DRY	0.00	0.0		8.0	0.0	PHW 2

<i>Table 17. Key biological and habitat variables for fish and macroinvertebrates in the Little Miami River study area, 2012.</i>																	
Site ID	Site RM Range	Drain. Area (mi. <sup>2</sup> )	Fish Statistics										Macroinvertebrate Statistics				Aq. Life Use
			QHEI	Total Sp.	Sens. Sp.	HW Sp.	% Pioneer	% Tolerant	Rel. Number	% DELT	IBI	Mlwb	ICI	Narr <sup>1</sup>	Qual EPT	Cold Water taxa	
<b>[11-073] - Unnamed Trib to N Branch Sycamore Creek at RM 5.4</b>																	
LM63	0.60	1.10	32.0	5.0	0.0	1.0	54.02	63.22	348.0	0.00	32.0	0.00	0.0	P	1.0	0.0	NONE
<b>[11-074] - Unnamed Trib to N Br Sycamore Cr at RM 0.75</b>																	
LM64	1.40	0.50	71.0	1.0	0.0	0.0	100.00	100.00	100.0	0.00	16.0	0.00	0.0		0.0	0.0	PHW 3A
<b>[11-084] - Trib to North Branch Sycamore Creek at RM 2.33</b>																	
LM62	1.65 - 1.80	0.60	76.0	1.0	0.0	0.0	100.00	100.00	440.0	0.00	20.0	0.00	0.0		1.0	1.0	PHW 3A
<b>[11-086] - Unnamed Trib (1.82) to Trib to Sycamore Creek (1.12)</b>																	
LM54	0.40	1.60	NA	DRY	0.0	0.0	0.00	0.00	0.0	0.00	DRY	0.00	0.0		1.0	1.0	PHW 2
<b>WAU 13-05 – East Fork Little Miami River</b>																	
<b>[11-100] - East Fork Little Miami River (LMR RM 11.5)</b>																	
LM25	19.50	344.00	88.5	21.5	9.5	0.5	15.13	15.79	797.3	0.67	42.0	9.10	44.0		16.0	0.0	EWH
LM26	14.90 - 15.60	352.00	89.3	22.5	10.0	1.0	10.12	9.94	694.5	0.27	47.0	8.86	48.0		25.0	0.0	EWH
LM27	13.70 - 13.90	364.00	80.5	24.0	12.5	0.0	20.16	20.88	694.5	0.28	43.0	8.64	48.0		22.0	0.0	EWH
LM28	12.90 - 13.20	372.00	80.5	27.0	11.5	0.0	10.51	11.17	425.3	0.38	45.0	9.81	52.0		24.0	0.0	EWH
LM29	11.00 - 11.30	376.00	81.0	24.5	10.5	1.0	11.55	12.58	827.3	0.19	41.0	8.57	44.0		16.0	0.0	EWH
LM30	9.00 - 9.10	380.00	93.0	23.5	11.0	0.5	5.81	5.81	630.8	0.17	43.0	9.16	46.0		17.0	0.0	EWH
LM31	5.60	485.00	71.5	21.0	8.0	0.0	9.19	10.12	310.5	0.71	39.0	8.75	46.0		20.0	0.0	EWH
LM32	4.30	491.00	74.0	20.5	7.5	0.0	7.80	8.31	697.5	0.00	41.0	8.60	50.0		16.0	1.0	EWH
LM34	2.00 - 2.10	494.00	69.8	19.5	6.5	0.0	0.35	2.27	575.0	0.19	35.0	9.53	42.0		18.0	0.0	EWH
LM35	1.00 - 1.60	498.00	81.5	27.0	9.5	0.0	2.21	2.73	806.0	0.25	38.0	9.41	50.0		17.0	0.0	EWH
LM36	0.70	499.00	63.0	19.5	4.5	0.0	5.87	7.58	476.0	0.42	35.0	9.07	50.0		17.0	0.0	EWH
<b>WAU 14-05 – Dry Run</b>																	
<b>[11-005] - Dry Run (LMR RM 7.54)</b>																	
LM70	5.50 - 5.70	0.70	62.5	1.0	0.0	0.0	100.00	100.00	290.0	0.00	20.0	0.00	0.0		4.0	0.0	PHW 3A
LM66	4.10 - 4.20	3.10	56.5	4.0	0.0	1.0	28.28	56.55	290.0	0.00	30.0	0.00	0.0	G	6.0	0.0	WWH
LM67	2.50	4.70	76.5	10.0	2.0	1.0	22.83	45.81	2576.0	0.00	44.0	0.00	0.0	G	8.0	0.0	WWH
LM68	0.60	5.40	NA	DRY	0.0	0.0	0.00	0.00	0.0	0.00	DRY	0.00	0.0		8.0	0.0	WWH
<b>[11-064] - Trib to Dry Run (4.20)</b>																	
LM69	0.10 - 0.20	0.90	NA	DRY	0.0	0.0	0.00	0.00	0.0	0.00	DRY	0.00	0.0	G	7.0	1.0	PHW 3A
<b>WAU 14-03 – Duck Creek</b>																	
<b>[11-004] - Duck Creek (LMR RM 3.87)</b>																	
LM71	6.00	2.20	20.0	0.0	0.0	0.0	0.00	0.00	0.0	0.00	12.0	0.00	0.0	VP	0.0	0.0	LRW
LM78	5.20 - 5.30	3.20	18.5	0.0	0.0	0.0	0.00	0.00	2.0	0.00	12.0	0.00	0.0	VP	1.0	0.0	LRW
LM72	4.60 - 4.70	5.10	40.0	4.0	0.0	0.0	97.33	97.33	300.0	0.67	26.0	0.00	0.0	P	2.0	0.0	LRW

*Table 17. Key biological and habitat variables for fish and macroinvertebrates in the Little Miami River study area, 2012.*

Site ID	Site RM Range	Drain. Area (mi. <sup>2</sup> )	Fish Statistics										Macroinvertebrate Statistics				Aq. Life Use
			QHEI	Total Sp.	Sens. Sp.	HW Sp.	% Pioneer	% Tolerant	Rel. Number	% DELT	IBI	Mlwb	ICI	Narr <sup>1</sup>	Qual EPT	Cold Water taxa	
<b>[11-004] - Duck Creek (LMR RM 3.87)</b>																	
LM73	4.40	5.80	18.5	1.0	0.0	0.0	100.00	100.00	2.0	0.00	12.0	0.00	0.0	P	2.0	0.0	LRW
LM75	3.30	11.40	22.5	0.0	0.0	0.0	0.00	0.00	0.0	0.00	12.0	0.00	0.0	F	4.0	0.0	LRW
LM76	2.30 - 2.90	11.80	33.5	4.0	0.0	1.0	5.47	29.69	256.0	0.00	32.0	0.00	18.0	F	5.0	0.0	LRW
LM77	1.80	14.30	48.0	9.0	0.0	1.0	37.61	56.48	1388.0	0.00	32.0	0.00	0.0	F	4.0	0.0	WWH
LM91	1.00	14.50	NA	DRY	0.0	0.0	0.00	0.00	0.0	0.00	DRY	0.00	0.0		4.0	0.0	WWH
LM79	0.90	14.60	NA	DRY	0.0	0.0	0.00	0.00	0.0	0.00	DRY	0.00	0.0	VP	0.0	0.0	WWH
<b>[11-051] - East Fork Duck Creek</b>																	
LM81	2.30	0.30	NA	0.0	0.0	0.0	0.00	0.00	0.0	0.00	DRY	0.00	0.0		0.0	0.0	WWH
LM85	1.50 - 1.90	1.50	59.0	3.0	0.0	1.0	71.43	78.57	28.0	0.00	18.0	0.00	0.0	VP	0.0	0.0	WWH
LM84	0.50 - 0.60	2.30	39.0	4.0	0.0	1.0	67.89	73.39	218.0	0.92	24.0	0.00	0.0	VP	1.0	0.0	WWH
LM74	0.15 - 0.20	3.40	51.0	8.0	0.0	1.0	58.08	68.71	978.0	0.20	28.0	0.00	0.0	VP	3.0	1.0	WWH
<b>[11-075] - Unnamed Trib to Duck Creek at RM 4.8</b>																	
LM83	0.80	1.20	NA	DRY	0.0	0.0	0.00	0.00	0.0	0.00	DRY	0.00	0.0		3.0	1.0	PHW 2
LM80	0.10 - 0.20	1.40	36.5	1.0	0.0	0.0	100.00	100.00	18.0	0.00	12.0	0.00	0.0	VP	0.0	0.0	LRW
<b>[11-076] - Little Duck Creek</b>																	
LM86	2.70	0.40	46.5	4.0	0.0	1.0	39.05	82.30	1808.0	0.11	34.0	0.00	0.0	G	7.0	0.0	WWH
LM87	2.60	0.50	48.8	4.0	0.0	1.0	40.85	73.83	940.0	0.00	34.0	0.00	0.0	G	6.0	1.0	WWH
LM90	2.30 - 2.40	0.50	59.0	4.0	0.0	1.0	47.24	73.49	1486.0	0.00	34.0	0.00	0.0	MG	5.0	1.0	WWH
LM88	1.70 - 1.80	0.80	NA	DRY	0.0	0.0	0.00	0.00	0.0	0.00	DRY	0.00	0.0		5.0	1.0	WWH
LM89	1.30 - 1.40	1.10	37.0	5.0	0.0	1.0	69.35	73.33	1860.0	0.00	30.0	0.00	0.0	P	2.0	1.0	WWH
LM92	0.20	1.70	NA	DRY	0.0	0.0	0.00	0.00	0.0	0.00	DRY	0.00	0.0		2.0	1.0	WWH
LM82	0.10	1.40	NA	DRY	0.0	0.0	0.00	0.00	0.0	0.00	DRY	0.00	0.0		0.0	0.0	WWH
<b>WAW 14-06 Clough Creek</b>																	
<b>[11-002] - Clough Creek (LMR RM 3.36)</b>																	
LM99	4.60	0.90	56.3	2.0	0.0	1.0	63.83	100.00	188.0	0.00	20.0	0.00	0.0	F	3.0	1.0	PHW 3A
LM95	3.20	2.00	56.5	5.0	1.0	1.0	39.83	79.24	472.0	0.00	30.0	0.00	0.0	F	3.0	0.0	WWH
LM96	3.00 - 3.10	5.40	57.8	9.0	1.0	1.0	47.74	73.14	1504.0	0.00	36.0	0.00	0.0	G	6.0	0.0	WWH
LM97	1.20	7.50	65.0	10.0	1.0	1.0	64.94	73.60	1894.0	0.00	26.0	0.00	34.0		7.0	0.0	WWH
LM98	0.40 - 0.60	7.80	57.5	7.0	1.0	1.0	32.37	72.11	760.0	0.00	26.0	0.00	0.0	G	8.0	0.0	WWH
<b>[11-003] - McCullough Run (LMR RM 3.7)</b>																	
LM94	1.30	1.70	37.0	12.0	1.0	1.0	78.71	83.17	404.0	0.00	34.0	0.00	0.0	VP	0.0	0.0	WWH
<b>11-078 - Unnamed Trib to McCullough Run at RM 1.08</b>																	
LM93	1.40 - 1.60	0.80	56.8	7.0	1.0	2.0	40.15	74.82	548.0	0.00	46.0	0.00	0.0	MG	5.0	0.0	WWH
<b>[11-079] - Trib to Unnamed Trib to Clough Creek at RM3.06</b>																	
LM101	1.00 - 1.05	0.70	58.8	2.0	0.0	1.0	80.99	100.00	242.0	0.00	24.0	0.00	0.0	F	4.0	0.0	WWH

*Table 17. Key biological and habitat variables for fish and macroinvertebrates in the Little Miami River study area, 2012.*

Site ID	Site RM Range	Drain. Area (mi. <sup>2</sup> )	Fish Statistics										Macroinvertebrate Statistics				Aq. Life Use
			QHEI	Total Sp.	Sens. Sp.	HW Sp.	% Pioneer	% Tolerant	Rel. Number	% DELT	IBI	Mlwb	ICI	Narr <sup>1</sup>	Qual EPT	Cold Water taxa	
<b>[11-080] - UT at RM 0.66 to UT to Clough Creek at RM 3.06</b>																	
LM102	0.20 - 0.60	1.10	NA	DRY	0.0	0.0	0.00	0.00	0.0	0.00	DRY	0.00	0.0	P	2.0	2.0	PHW 2
<b>[11-081] - UT at RM 0.95 to UT to Clough Creek at RM 3.06</b>																	
LM100	0.10 - 0.20	0.90	60.8	5.0	0.0	0.0	93.26	93.82	356.0	3.37	24.0	0.00	0.0	P	2.0	0.0	WWH
<b>WAU 12-08 Five Mile Creek – Ohio River</b>																	
<b>[10-001] - Five Mile Creek</b>																	
LM107	2.40 - 2.90	2.30	67.5	4.0	0.0	1.0	27.70	72.30	592.0	0.00	28.0	0.00	0.0	MG	5.0	0.0	WWH
LM108	0.10 - 0.20	4.70	70.8	21.0	7.0	2.0	27.09	34.49	1270.0	0.00	52.0	0.00	0.0	MG	5.0	0.0	WWH
<b>10-002 - Eight Mile Creek</b>																	
LM105	2.00 - 2.10	0.80	71.0	1.0	0.0	0.0	100.00	100.00	2.0	0.00	12.0	0.00	0.0		2.0	0.0	PHW 3A
<b>[10-130] - Trib to Eight Mile Creek at RM 1.01</b>																	
LM106	0.10	1.10	71.5	3.0	0.0	1.0	78.16	100.00	174.0	0.00	18.0	0.00	0.0		4.0	0.0	PHW 3A
<b>[10-537] - Four Mile Creek</b>																	
LM104	0.70 - 0.90	1.10	66.0	2.0	0.0	1.0	82.35	100.00	34.0	23.53	18.0	0.00	0.0	F	4.0	0.0	WWH
<b>WAU 08-03 Turtle Creek</b>																	
<b>[11-021] - Turtle Creek</b>																	
RF08	6.10 - 6.80	22.50	69.0	24.0	9.0	2.0	71.47	68.66	6842.0	0.00	40.0	0.00	0.0		4.0	0.0	WWH
<b>[11-022] - Dry Run</b>																	
RF09	1.80	4.90	63.0	11.0	1.0	2.0	26.17	63.46	810.0	0.00	38.0	0.00	0.0		4.0	0.0	WWH
<b>[11-030] - Newman Run</b>																	
RF10	0.30	9.50	NA	DRY	0.0	0.0	0.00	0.00	0.0	0.00	DRY	0.00	0.0		4.0	0.0	EWB
1 – Narrative evaluation: E – Exceptional; VG – Very Good; G – Good; MG – Marginally Good; F – Fair; P – Poor; VP – Very Poor.																	
b – mixing zone																	

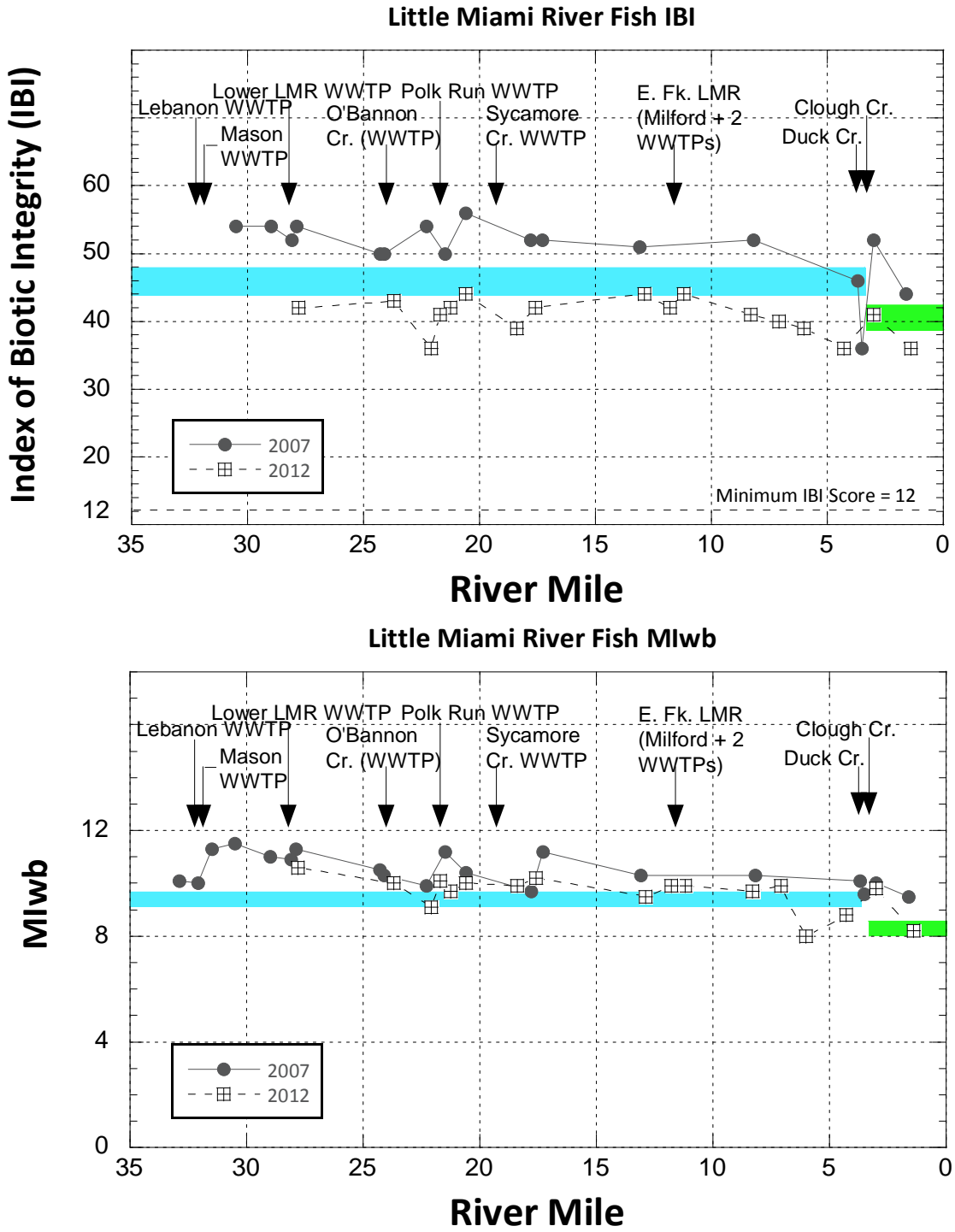


Figure 23. Plots of the Index on Biotic Integrity, IBI (top) or Modified Index of well-being, MIwb (bottom) vs. river mile in the lower Little Miami River during 2007 and 2012. The shaded bars represent the applicable biocriteria ranges by aquatic life use tier; blue = EWH; green = WWH.

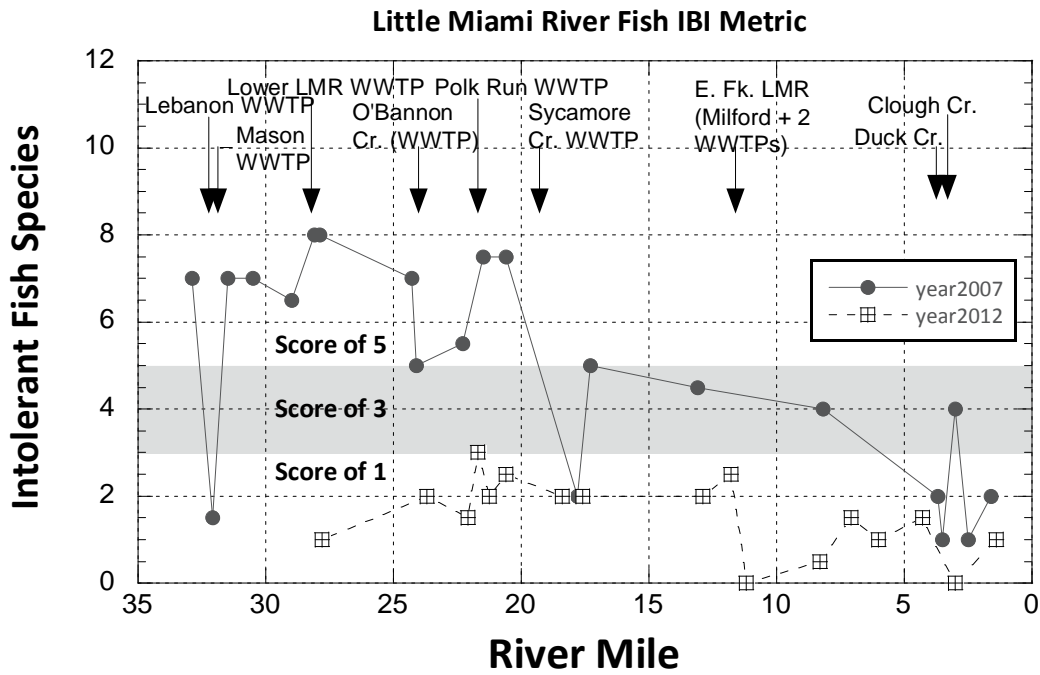


Figure 24. Plot of the intolerant fish species vs. river mile in the lower Little Miami River during 2007 and 2012. Shaded bar represents the appropriate IBI scores for the intolerant fish metric for boatable rivers.

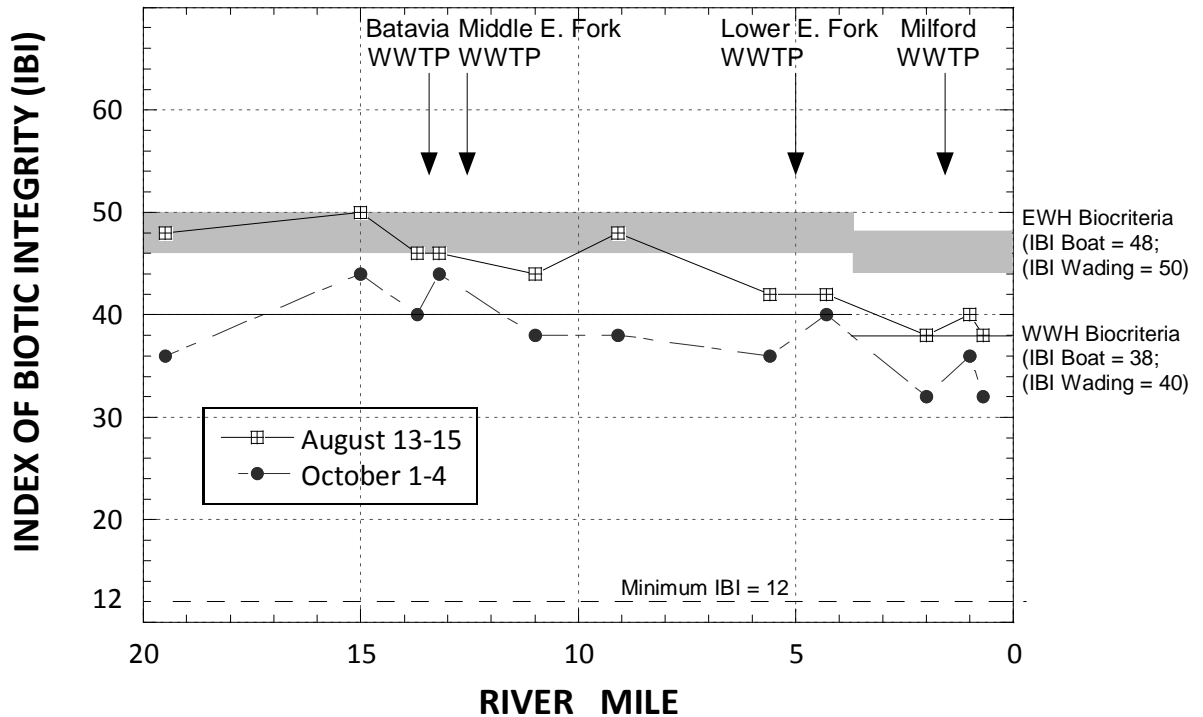


Figure 25. Plot of the IBI vs. river mile in the lower East Fork Little Miami River during each pass collected during 2012. The shaded bars represent the applicable IBI biocriteria metric (upper) and index (lower) scores for wading (RM 4-20) and boatable sites (RM 0-4).



#### *WAU 14-01 - Sycamore Creek*

The fish assemblages in Sycamore Creek are poor in the headwaters, the most urban part of the watershed and improve as the streams increases in size. The downstream most two sites (LM51, LM52) meet the WWH IBI biocriterion, but are impaired due to suppressed MIwb scores. These sites have some intolerant species (banded darter, rosyface shiner, stonecat madtom), but have relatively low relative number and biomass which lower the MIwb. The upstream sites (RM 3.5-0.7, LM47-50) are influenced by urban runoff and are predominately a tolerant assemblage of headwater species that includes creek chub, western blacknose dace, and white sucker).

The Sycamore Creek watershed generally has good-excellent habitat (QHEI scores up to 88) and the substrates and nutrients conditions support large number of the herbivorous central stoneroller. The downstream sites have flow from WWTPs and the North Branch of Sycamore Creek. Historical data was not collected above RM 1.5, but data from 2007 and 1991 upstream of the mouth, upstream of the North Branch and upstream of the Sycamore WWTP sites had higher IBI scores in those reaches compared to 2012 (Figure 26).

The North Branch of Sycamore Creek has IBI scores that met the IBI criterion at 3 of 5 sites (Table 17; Figure 26) and was slightly lower (IBI=34) than the biocriteria target at the other two sites. It had more sensitive species in its downstream reaches than in the most upstream reaches where urban runoff was most pronounced. Upstream the North Branch was predominantly composed of tolerant headwater species. Three sites in a tributary to Sycamore Creek at RM 1.12 (LM53, LM55 and LM56) were also impaired (IBIs 24-32) and predominantly composed of tolerant headwater species (creek chub, western blacknose dace). A tributary to the North Fork at RM 5.4 (11-073; LM63), also subject to urban runoff, was similarly impaired (IBI=32) with an assemblage of tolerant headwater species. The remainder of the sites in the Sycamore were either too small to support anything more than pioneering species (e.g., creek chub, LM62, LM64) or were dry when visited (LM54, LM65) and were classified as PHW reaches.

#### *WAU 14-02 - Polk Run*

The Polk Run watershed has two of seven sites that were sampled meeting the WWH headwater IBI biocriterion (Polk Run, 11-009, LM40 at RM 0.30 and LM41 on the unnamed Trib to Polk Run at RM 1.79, 11-069). The downstream Polk Run site (LM40) had sensitive fish species including northern hog sucker, smallmouth bass, and greenside and banded darters and its IBI (52) was likely inflated somewhat by its proximity to its confluence with the Little Miami River. The other sites and tributaries were influence by urban runoff and had impaired fish IBI scores (range 28-32) and were characterized by populations of largely tolerant headwater species (creek chub, western blacknose dace, bluntnose minnow and white sucker)

#### *WAU 14-04 - Duck Creek*

Duck Creek is the most severely disturbed watershed in the lower Little Miami River. This is reflected by the LRW aquatic life use designation on Duck Creek itself. Upstream sites were sampled and had no fish (RM 6.0 and 5.2; LM71, LM78, IBI scores = 12). A tributary to Duck Creek in this reach (11-075, LM80) was also a concrete channel with a single tolerant fish

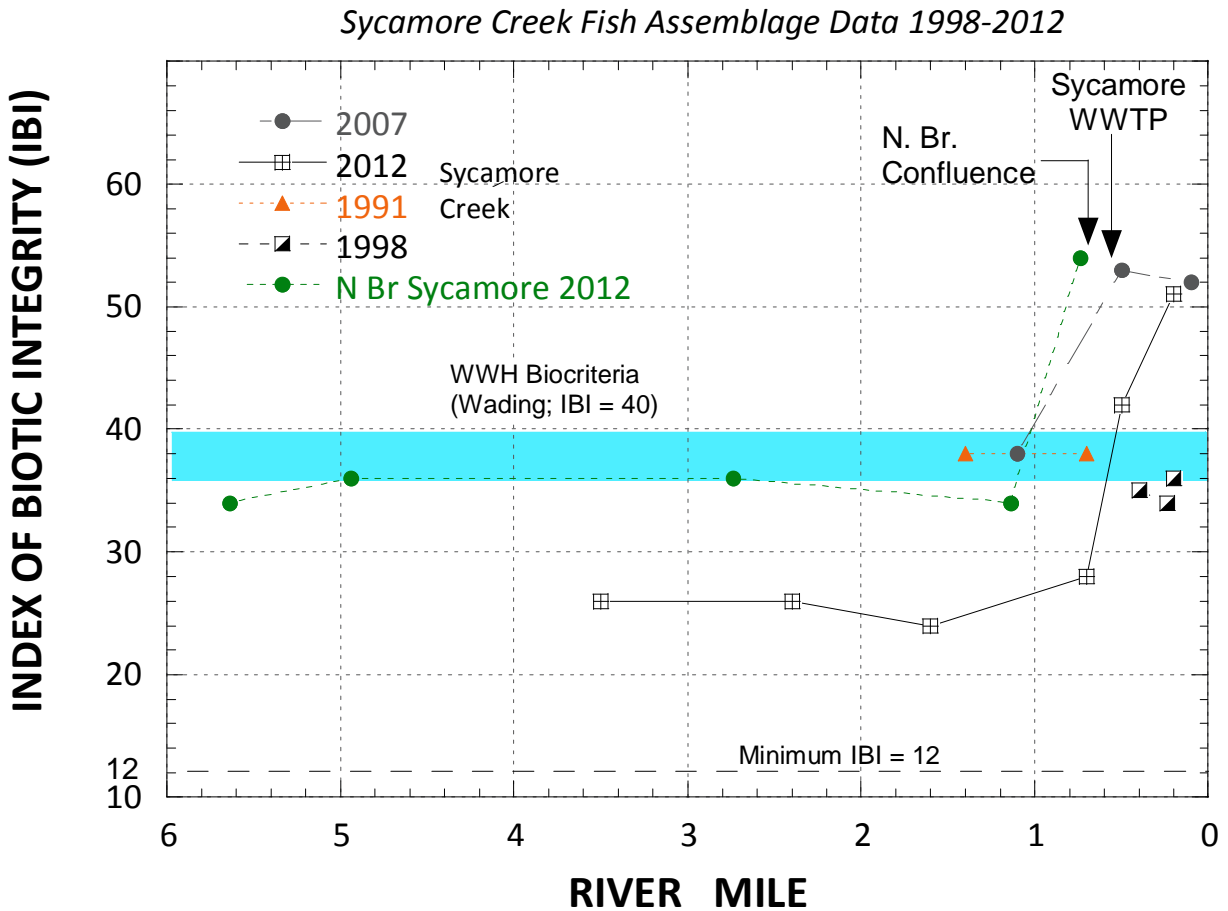


Figure 26. Plot of the IBI vs. river mile in Sycamore Creek from 1998-2012 and in the North Branch during 2012. The shaded bar represents the applicable WWH IBI biocriterion for wadeable and headwater streams in the IP ecoregion.

species (green sunfish), the site had an IBI of 12 and was recommended to be designated as LRW. Two sites fully attained the low expectations for IBIs for LRW with IBI scores of 26 and 32. These sites were however, predominated by tolerant species and other LRW sites had either no or only a single species collected. The lower 1.8 miles of Duck Creek has more natural channel features and retains a WWH aquatic life use. Three of four sites in this reach (LM79, LM81, LM91); however, were dry and could not be sampled. We did consider these as impaired and not meeting the WWH because the flow limitations are at least partly related to the urban, modified nature of the watershed in this reach.

The East Fork of Duck Creek was designated as LRW by Ohio EPA, based on limited data; however our inclusion of more sites resulted in the East Fork being recommended as a WWH aquatic life use because of natural channels and habitat, albeit, in a very urban watershed (see use designation setting). The fish assemblage is degraded at the three WWH sites (IBI scores 18-28) with the assemblage primary comprised of tolerant fish species primary related to urban runoff and CSO impacts.

Little Duck Creek was not sampled previously by Ohio EPA and our data suggests it should be a WWH stream. Sites consisted of multiple fish species that are tolerant (e.g., creek chub, western blacknose dace, white sucker) and impaired IBI scores 30-34 or dry sites, particularly near the mouth as the stream reaches the Little Miami River floodplain. As with Duck Creek we consider these streams to be impaired even though they could not be sampled because of urban contributions to low flow conditions. Two small streams, too small to support permanent fish assemblages were assigned the PHWH classifications.

#### *WAU 14-05 – Dry Run – Little Miami River*

In this watershed the only site that met the IBI biocriterion was the middle site on Dry Run (11-005, LM67) at RM 2.5. This site had an IBI of 44 had two darter species including the intolerant banded darter. The next upstream site (LM66, RM 4.1) was considered a WWH site, but was impaired with an IBI of 30 and primarily tolerant headwater species. The most upstream site only had creek chubs, but had sufficient flow and habitat to support two-line salamanders and was classified as a PHWIIIa reach. The site at the mouth was dry at RM 0.6 (LM68) as the stream flowed in the Little Miami River floodplain during 2012 and an upstream tributary was also too dry to sample (11-064, LM69) although it was able to be sampled for the PHWH classification and had enough water to support two-lined salamanders and be classified as a PHW3A reach.

#### *WAU 14-06 – Clough Creek*

This fish assemblages in this watershed are characterized by mostly tolerant headwater species, or species of intermediate tolerance (e.g., silverjaw minnow) although sites with a little less severe impacts have populations of rainbow and fantail darters.

#### *WAU 12-08 - Nine Mile Creek – Ohio River*

Most of the small streams in this watershed had assemblages characterized by tolerant headwater species including western blacknose dace and creek chub. The exception was the site at the mouth of Fivemile Creek (10-001; LM108) which had 22 species including sensitive small stream species such as banded and rainbow darter as well as others that likely migrated in from Ohio River including gizzard shad, emerald shiner, goldfish, and flathead catfish. Although clearly a WWH stream the proximity to the Ohio River likely inflated the IBI score.

### ***Macroinvertebrate Assemblage Results 2012***

Macroinvertebrate assemblages in the Little Miami watershed were representative of very good to exceptional water quality in the mainstem of the Little Miami River and the East Fork Little Miami River. Many smaller headwater streams in the basin that were located in highly urban areas were evaluated as very poor to fair water quality, as also was most of the mainstem of Duck Creek and East Fork Duck Creek. Tributaries over 5 square miles that were marginally good to good water quality included Sycamore Creek, Polk Run and Clough Creek.

#### *LRAU 05090202 9002 - Little Miami River*

During 2012 macroinvertebrates collected on the artificial substrate samplers on the mainstem of the Little Miami River from RM 27.8 to RM 3.0 had ICI scores from 42 to 50 in the very good to exceptional range (Figure 27). The number of mayfly, caddisfly and stonefly (EPT) taxa

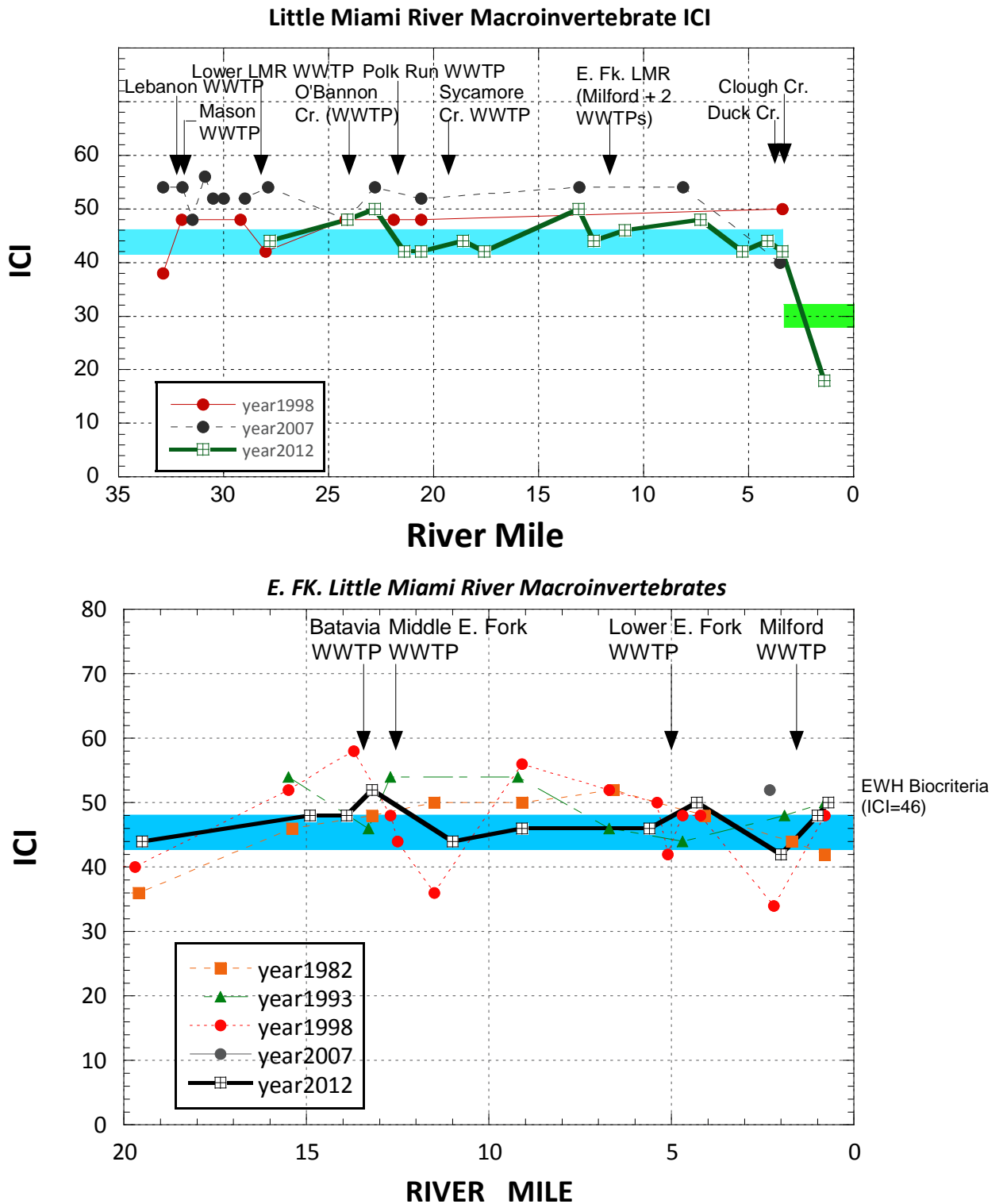


Figure 27. Plot of the ICI vs. river mile in the Little Miami River mainstem (top) and the East Fork Little Miami River (bottom) during 2012 and with all prior year Ohio EPA results. The shaded bars represent the applicable ICI biocriteria for the EWH (blue) and WWH (green) aquatic life use tiers.

collected from the natural substrates at these sites ranged from 12 to 22. The total number of sensitive species collected from both the natural and the artificial substrates combined ranged from 16 to 29. The artificial substrate samplers were lost at Little Miami River RM 8.0, but the qualitative assessment was exceptional based on the 16 EPT and 17 sensitive taxa collected along with the predominance of mayflies, caddisflies and Tanytarsini midges. The other exceptional sites in the Little Miami River mainstem had from 12 to 18 qualitative EPT taxa and 14 to 18 sensitive taxa. The Little Miami River sites RM 21.8 and 1.4 had lower ICI scores but were located in a mix zone (ICI = 32) of a WWTP and the backwater (ICI = 18) of the Ohio River where biocriteria do not apply.

#### *WAU 08-03 – Turtle Creek*

Macroinvertebrates assemblages collected at reference sites in 2012 on Newman Run, Dry Run RM 1.8 and Turtle Creek RM 6.1 were affected by low flow conditions. Artificial substrate samplers were set at Newman Run, but the stream was dry at retrieval. The other two reference sites had sufficient flow over the artificial substrates at the set, but upon retrieval there was no flow over the HDs. The qualitative samples collected on the natural substrates on Dry Run and Turtle Creek had 3 and 8 EPT taxa and were evaluated as fair and good, respectively. The fair condition of the macroinvertebrate community at the Dry Run reference may in part be due to the low flow during 2012. The site was mostly intermittent and a pool area upstream from the bridge had large amounts of algae.

#### *WAU 09-02 – O'Bannon Creek*

Two sites were sampled on O'Bannon Creek at RMs 1.9 and 0.1. The upstream site RM 1.9 had an ICI score of 34 and the qualitative sample had 9 EPT taxa collected on the natural substrates. Samplers were lost at the downstream site. The site at RM 0.1 was evaluated as good with 16 EPT taxa and 8 sensitive taxa collected, with mayflies, caddisflies and Tanytarsini midges predominant.

#### *WAU 12-08 – Ninemile Creek*

Macroinvertebrate assemblages collected in the Ohio River tributaries ranged from fair in Four Mile Creek RM 0.8 to marginally good at Five Mile Creek RMs 2.4 and 0.2. Eight Mile Creek RM 2.1 and the tributary to Eight Mile Creek were evaluated as PHWH Class 3A based on salamander populations present.

#### *WAU 13-05 – East Fork Little Miami River*

During 2012 macroinvertebrates collected on the artificial substrate samplers on the mainstem of the East Fork Little Miami River from RM 27.8 to RM 3.0 had ICI scores from 42 to 52 in the very good to exceptional range (Figure 26). The number of mayfly, caddisfly and stonefly (EPT) taxa collected from the natural substrates at these sites ranged from 16 to 25. The total number of sensitive species collected from both the natural and the artificial substrates combined ranged from 17 to 29. Samplers were set and retrieved before the release of water from the Harsha Lake dam in the summer of 2012.

*WAU 14-01 – Sycamore Creek*

WWH Water Quality evaluations based on the macroinvertebrate communities present on the natural substrates ranged from poor to good in the Sycamore Creek basin. Community assessments were based on the natural substrates at the lower Sycamore Creek sites since retrieval flow conditions over the artificial substrates was not optimal (less than 0.3 feet/sec.) and/or samplers were silted in. Artificial substrate samplers were retrieved from the North Branch Sycamore Creek at the lower two sites RM 0.5 and 0.05, which had ICI scores in the good range of 34 and 36, respectively. The most upstream site of Sycamore Creek at RM 3.6 and a tributary to the North Branch Sycamore Creek RM 1.1 (off of Pfeiffer Rd) were located in concentrated urban areas and the macroinvertebrate assemblages were evaluated as fair and poor, respectively. As the drainage area increased and the locales became less concentrated urban areas, macroinvertebrate community performance was marginally good to good in Sycamore Creek, North Branch Sycamore Creek and in the larger tributaries.

Two of four sites were evaluated as PHWH Class 2 sites based on HHEI scores and the ephemeral (dry) conditions present. These two dry sites were located in urban settings prone to flashy drainage during storm events. The other two PHWH sites were evaluated as Class 3 based on salamander populations present.

*WAU 14-02 – Polk Run*

Qualitative macroinvertebrate samples were collected at eight sites in the Polk Run basin. Eight of the sites were evaluated as marginally good to good. The upstream site on the tributary to Polk Run (1.79) was evaluated as fair with only 4 EPT taxa and tolerant snails predominate.

*WAU 14-04 – Duck Creek*

Very poor to fair macroinvertebrate communities were collected at all sites in Duck Creek and the East Fork Duck Creek. The general area of these creeks is close to I-71 between Stewart Ave. and Edmond Rd. interchanges, and Red Bank Road. Septic odors, plastic trash and/or algal growths were observed at most of these sites. The modified channel of Duck Creek was evident at RMs 5.2, 4.4 and 3.3 where the channel bottom and margin wall is completely encased in concrete.

Little Duck Creek originated along Carmargo Rd. which less urbanized than the rest of the basin. The upper three sites were sampled just downstream from the headwaters from East Fork Rd (RM 2.7) to Settle St. (RM 2.3). These sites were similar in habitat and macroinvertebrate assemblages collected and evaluated as good. Little Duck Creek became more urbanized downstream from RM 2.3 and had dry sections with no flow during the summer of 2012. The only site that had flow in this downstream segment was a short section at RM 1.5 which had only 2 EPT taxa collected and evaluated as poor.

Three sampling site locations ranging in drainage size from 0.1 to 1.4 square miles (sq. mi.) were evaluated as Primary Headwater Habitats (PHWH). Two locations were dry (ephemeral) during summer and were evaluated as PHWH Class 1 or 2, and the other as Class 3A based on salamander populations present.

*WAU 14-05 – Dry Run*

During 2012, macroinvertebrates collected at RMs 4.1 and 2.5 in Dry Run were evaluated as good with 6 to 8 EPT taxa. The site at Dry Run RM 5.6 and a tributary to Dry Run were evaluated as PHWH Class 3A based on salamander populations present. The mouth site of Dry Run at RM 0.1 was dry during the summer and was not sampled for macroinvertebrates.

*WAU 14-06 – Clough Creek*

One tributary to Clough Creek was evaluated as PHWH Class 2 based on HHEI scores and the ephemeral (dry) conditions present during fish sampling. Smaller drainage size streams (0.7 to 2.0 sq. mi.) in the Clough Creek basin in 2012 had very poor to fair macroinvertebrate communities, except the tributary to McCullough Creek which had a marginally good assessment. The McCullough Creek lower sites at RMs 3.0 to 0.4 had higher number of total and EPT taxa than most of the other sites and were evaluated as good. One HD was retrieved in McCullough Creek at RM 1.2 with an ICI score of 34.

## REFERENCES

- DeShon, J. D. 1995. Development and application of the invertebrate community index (ICI), pages 217-243. in W.S. Davis and T. Simon (eds.). *Biological Assessment and Criteria: Tools for Risk-based Planning and Decision Making*. Lewis Publishers, Boca Raton, FL.
- Dufour, A.P. 1977. *Escherichia coli*: The fecal coliform. *American Society for Testing and Materials Spec. Publ. 635*: 45-58.
- Gammon, J. R. 1976. The fish populations of the middle 340 km of the Wabash River, Purdue University Water Resources Research Center Technical Report 86. 73 pp.
- Gammon, J. R. 1973. The effect of thermal inputs on the populations of fish and macroinvertebrates in the Wabash River. Purdue University Water Resources Research Center Technical Report 32. 106 pp.
- Intergovernmental Task Force on Monitoring Water Quality (ITFM). 1995. The strategy for improving water-quality monitoring in the United States. Final report of the Intergovernmental Task Force on Monitoring Water Quality. Interagency Advisory Committee on Water Data, Washington, D.C. + Appendices.
- Karr, J.R. and C.O. Yoder. 2004. Biological assessment and criteria improve TMDL planning and decision-making. *Journal of Environmental Engineering* 130(6): 594-604.
- Karr, J. R. 1991. Biological integrity: A long-neglected aspect of water resource management. *Ecological Applications* 1(1): 66-84.
- Karr, J. R. 1981. Assessment of biotic integrity using fish communities. *Fisheries* 6(6): 21-27.
- MacDonald, R.S. Carr, F.D. Calder, E.R. Long, and C.G. Ingersoll. 2000. Development and evaluation of sediment guidelines for Florida coastal waters. *Ecotoxicology* 5: 253-278.
- Metropolitan Sewer District of Greater Cincinnati (MSDGC). 2011a. Lower Little Miami River watersheds fact sheet: Project Groundwork. MSDGC, Cincinnati, OH. 3 pp. [www.msdcg.org](http://www.msdcg.org).
- Metropolitan Sewer District of Greater Cincinnati (MSDGC). 2011b. 2010 Sustainability Report: Redefining the Future. MSDGC, Cincinnati, OH. 51 pp. [www.msdcg.org](http://www.msdcg.org).
- Metropolitan Sewer District of Greater Cincinnati (MSDGC). 2011c. Metropolitan Sewer District Of Greater Cincinnati, Division of Industrial Waste Laboratory Section Chemistry Quality Assurance Program For Chemical Analysis. SOP 001 (10/01/01) Revision No. 2 (06/01/11).



- Metropolitan Sewer District of Greater Cincinnati (MSDGC). 2006. Wet Weather Improvement Program Volume IV: Protocols and White Papers. MSDGC, Cincinnati, OH. 280 pp.  
[http://www.msdc.org/downloads/wetweather/bundles/Documents For All Bundles/WWIP\\_Final/final\\_wwip.pdf](http://www.msdc.org/downloads/wetweather/bundles/Documents%20For%20All%20Bundles/WWIP_Final/final_wwip.pdf)
- Midwest Biodiversity Institute (MBI). 2011. Watershed Monitoring and Bioassessment Plan for the MSD Greater Cincinnati Service Area, Hamilton County, Ohio. Technical Report MBI/2011-6-3. Columbus, OH. 30 pp. + appendices.
- Miltner, R.J., E. Nygaard, G. Stuhlfauth, E. Pineiro, C. Meehan, L. Zheng, and J. Gerritsen. 2011. Technical support document for nutrient water quality standards for Ohio rivers and streams (draft). Division of Surface Water, Columbus, OH. 63 pp.
- Miltner, R.J., R.F. Mueller, C.O. Yoder, and E.T. Rankin. 2010. Priority rankings based on estimated restorability for stream segments in the DuPage River and Salt Creek watersheds. Technical Report MBI/2010-11-6. Report to the DuPage River Salt Creek Working Group, Naperville, IL. 63 pp. (available at <http://www.midwestbiodiversityinst.org/index.php>).
- Ohio Environmental Protection Agency (Ohio EPA) 2012. Field Evaluation Manual for Ohio's Primary Headwater Habitat Streams Version 3.0. Division of Surface Water, Columbus, Ohio. 117pp.
- Ohio Environmental Protection Agency (Ohio EPA). 2009. Manual of Ohio EPA Surveillance Methods and Quality Assurance Practices. Division of Surface Water and Division of Environmental Services, Columbus, OH. 41 pp.
- Ohio Environmental Protection Agency. 2008. Biological and Water Quality Study of the White Oak Creek Watershed 2006. Highland and Brown Counties, Ohio. Ohio EPA Technical Report EAS/2008-12-12. Division of Surface Water, Columbus, Ohio. 118 pp.
- Ohio Environmental Protection Agency. 2006. Methods for assessing habitat in flowing waters: using the qualitative habitat evaluation index (QHEI). Division of Surface Water, Ecological Assessment Section, Columbus, OH. 23 pp.
- Ohio Environmental Protection Agency. 2002. Field Evaluation Manual for Ohio's Primary Headwater Habitat Streams. Final Version 1.0. Division of Surface Water, Columbus, OH. 60 pp.
- Ohio EPA. 1999. Association between nutrients, habitat, and the aquatic biota in Ohio Rivers and streams. Ohio EPA Technical Bulletin MAS/1999-1-1. Jan. 7, 1999.

- Ohio Environmental Protection Agency. 1999. Ohio EPA Five Year Monitoring Surface Water Monitoring and Assessment Strategy, 2000-2004. Ohio EPA Tech. Bull. MAS/1999-7-2. Division of Surface Water, Monitoring and Assessment Section, Columbus, Ohio.
- Ohio Environmental Protection Agency. 1994. Biological and water quality study . Ohio EPA Tech. Rept. SWS/1993-12-9. Division of Surface Water, Water Quality and Ecological Assessment Sections, Columbus, Ohio. 86 pp.
- Ohio Environmental Protection Agency. 1989a. Biological criteria for the protection of aquatic life. volume III: standardized biological field sampling and laboratory methods for assessing fish and macroinvertebrate communities, Division of Water Quality Monitoring and Assessment, Columbus, Ohio.
- Ohio Environmental Protection Agency. 1989b. Addendum to biological criteria for the protection of aquatic life. volume II: users manual for biological field assessment of Ohio surface waters, Division of Water Quality Planning and Assessment, Surface Water Section, Columbus, Ohio.
- Ohio EPA. 1987a. Biological criteria for the protection of aquatic life. Volume I. The role of biological data in water quality assessments. Division of Water Quality Monitoring and Assessment, Surface Water Section, Columbus, Ohio.
- Ohio EPA. 1987b. Biological criteria for the protection of aquatic life. Volume II. Users manual for biological field assessment of Ohio surface waters. Division of Water Quality Monitoring and Assessment, Surface Water Section, Columbus, Ohio.
- Omernik, J. M. 1987. Ecoregions of the conterminous United States. *Annals of the Association of American Geographers* 77(1): 118-125.
- Rankin, E. T. 1995. The use of habitat assessments in water resource management programs, pages 181-208. in W. Davis and T. Simon (eds.). *Biological Assessment and Criteria: Tools for Water Resource Planning and Decision Making*. Lewis Publishers, Boca Raton, FL.
- Rankin, E.T. 1989. The Qualitative Habitat Evaluation Index (QHEI): Rationale, Methods, and Application. Ohio EPA, Division of Water Quality Planning and Assessment, Ecological Analysis Section, Columbus, Ohio.
- Sanders, R. S., R. J. Miltner, C. O. Yoder, and E. T. Rankin. 1999. The use of external deformities, erosions, lesions, and tumors (DELT anomalies) in fish assemblages for characterizing aquatic resources: a case study of seven Ohio streams, pages 225-248. *in* T.P. Simon (ed.), *Assessing the Sustainability and Biological Integrity of Water Resources Using Fish Communities*. CRC Press, Boca Raton, FL.

- Trautman, M. B. 1981. The fishes of Ohio. The Ohio State Univ. Press, Columbus, OH. 782 pp.
- U.S. Environmental Protection Agency. 1995a. Environmental indicators of water quality in the United States. EPA 841-R-96-002. Office of Water, Washington, DC 20460. 25 pp.
- U.S. Environmental Protection Agency. 1995b. A conceptual framework to support development and use of environmental information in decision-making. EPA 239-R-95-012. Office of Policy, Planning, and Evaluation, Washington, DC 20460. 43 pp.
- Woods, A., J.M. Omernik, C.S. Brockman, T.D. Gerber, W.D. Hosteter, and S.H. Azevedo. 1995. Ecoregions of Ohio and Indiana. U.S. EPA, Corvallis, OR. 2 pp.
- Yoder, C.O. and 9 others. 2005. Changes in fish assemblage status in Ohio's non-wadeable rivers and streams over two decades, pp. 399-429. *in* R. Hughes and J. Rinne (eds.). Historical changes in fish assemblages of large rivers in the America's. American Fisheries Society Symposium Series.
- Yoder, C. O. and B. H. Kulik. 2003. The development and application of multimetric biological assessment tools for the assessment of impacts to aquatic assemblages in large, non-wadeable rivers: a review of current science and applications. *Canadian Journal of Water Resources* 28 (2): 1 - 28.
- Yoder, C. O. and M. A Smith. 1999. Using fish assemblages in a state biological assessment and criteria program: essential concepts and considerations, pages 17-56. *in* T.P. Simon (ed.), *Assessing the Sustainability and Biological Integrity of Water Resources Using Fish Communities*. CRC Press, Boca Raton, FL.
- Yoder, C.O. 1998. Important concepts and elements of an adequate State watershed monitoring and assessment program. Prepared for U.S. EPA , Office of Water (Coop. Agreement CX825484-01-0) and ASIWPCA, Standards and Monitoring. Ohio EPA, Division of Surface Water, Columbus, OH. 38 pp.
- Yoder, C.O. and E.T. Rankin. 1998. The role of biological indicators in a state water quality management process. *J. Env. Mon. Assess.* 51(1-2): 61-88.
- Yoder, C.O. 1995a. Policy issues and management applications for biological criteria, pp. 327-344. *in* W. Davis and T. Simon (eds.). *Biological Assessment and Criteria: Tools for Water Resource Planning and Decision Making*. Lewis Publishers, Boca Raton, FL.
- Yoder, C.O. and E.T. Rankin. 1995b. Biological response signatures and the area of degradation value: new tools for interpreting multimetric data, pages 263-286. *in* W. Davis and T. Simon (eds.). *Biological Assessment and Criteria: Tools for Water Resource Planning and Decision Making*. Lewis Publishers, Boca Raton, FL.

## **Appendix A**

### **Little Miami River 2011 Fish Assemblage Data**

Appendix Table 5!% Ohio Boatable IBI scores and metrics at boat sites in sampled in Little Miami during 2012.

Site ID	River Mile	Type	Date	Drainage area (sq mi)	Number of				Percent of Individuals						DELTA anomalies	Rel.No. minus tolerants /(1.0 km)	Modified IBI	lwb
					Total species	Sunfish species	Sucker species	Intolerant species	Rnd-bodied suckers	Simple Lithophils	Tolerant fishes	Omnivores	Top carnivores	Insectivores				
<b>90-02 - (Little Miami River, O'Bannon Creek to Ohio R.)</b>																		
Little Miami River - (11001)																		
Year: 2012																		
LM01	27.80	A	09/12/2012	1070	22(5)	1(1)	6(5)	1(1)	28(3)	29(3)	1(5)	22(3)	7(3)	55(5)	3.1(1)	840(5)	40	10.6
LM01	27.80	A	07/23/2012	1070	22(5)	3(3)	5(3)	1(1)	24(3)	25(3)	4(5)	17(3)	9(3)	69(5)	0.0(5)	713(5)	44	10.5
LM02	23.70	A	07/17/2012	1150	25(5)	3(3)	7(5)	2(3)	17(1)	22(3)	13(5)	26(3)	10(3)	58(5)	0.0(5)	294(3)	44	10.1
LM02	23.70	A	09/13/2012	1150	22(5)	4(5)	6(5)	2(3)	10(1)	11(1)	5(5)	30(1)	7(3)	62(5)	0.6(3)	934(5)	42	10.0
LM03	22.10	A	07/17/2012	1148	19(3)	2(3)	4(3)	2(3)	6(1)	7(1)	10(5)	34(1)	13(5)	52(3)	0.0(5)	348(3)	36	8.9
LM03	22.10	A	09/13/2012	1148	19(3)	3(3)	6(5)	1(1)	13(1)	13(1)	2(5)	21(3)	5(1)	74(5)	1.0(3)	822(5)	36	9.4
LM04	21.70	A	07/17/2012	1150	18(3)	3(3)	6(5)	1(1)	36(3)	38(3)	0(5)	18(3)	10(3)	68(5)	0.0(5)	386(3)	42	9.5
LM04	21.70	A	09/13/2012	1150	27(5)	3(3)	9(5)	5(5)	18(1)	19(1)	6(5)	42(1)	5(3)	48(3)	0.6(3)	582(5)	40	10.7
LM05	21.25	A	07/17/2012	1160	18(3)	1(1)	7(5)	1(1)	22(3)	22(3)	14(5)	18(3)	8(3)	56(5)	1.5(3)	224(3)	38	9.5
LM05	21.25	A	09/13/2012	1160	27(5)	3(3)	8(5)	3(3)	7(1)	7(1)	6(5)	12(5)	7(3)	79(5)	0.2(5)	1082(5)	46	9.9
LM06	20.60	A	07/24/2012	1161	24(5)	4(5)	5(3)	2(3)	12(1)	12(1)	21(3)	25(3)	7(3)	65(5)	0.3(5)	564(5)	42	9.8
LM06	20.60	A	09/19/2012	1161	27(5)	4(5)	6(5)	3(3)	4(1)	5(1)	7(5)	22(3)	8(3)	66(5)	0.3(5)	1180(5)	46	10.2
LM07	18.40	A	07/31/2012	1190	24(5)	4(5)	6(5)	1(1)	9(1)	9(1)	39(1)	40(1)	10(5)	44(3)	0.5(5)	512(5)	38	9.9
LM07	18.40	A	09/19/2012	1190	23(5)	4(5)	6(5)	3(3)	5(1)	6(1)	7(5)	34(1)	9(3)	53(3)	1.4(3)	906(5)	40	10.0
LM08	17.60	A	07/31/2012	1190	21(5)	3(3)	7(5)	1(1)	19(1)	20(1)	5(5)	8(5)	25(5)	50(3)	0.0(5)	302(3)	42	10.2
LM08	17.60	A	09/19/2012	1190	23(5)	3(3)	6(5)	3(3)	13(1)	14(1)	7(5)	29(1)	8(3)	61(5)	0.4(5)	1008(5)	42	10.2
LM09	12.90	A	08/01/2012	1200	21(5)	1(1)	8(5)	2(3)	18(1)	18(1)	1(5)	2(5)	9(3)	82(5)	0.4(5)	486(5)	44	9.4
LM09	12.90	A	09/20/2012	1200	23(5)	3(3)	6(5)	2(3)	9(1)	9(1)	1(5)	16(3)	8(3)	75(5)	0.3(5)	1380(5)	44	9.7
LM10	11.80	A	08/01/2012	1210	22(5)	3(3)	6(5)	1(1)	10(1)	10(1)	19(3)	21(3)	11(5)	64(5)	0.2(5)	770(5)	42	9.9
LM10	11.80	A	09/20/2012	1210	24(5)	3(3)	5(3)	4(5)	7(1)	8(1)	3(5)	31(1)	13(5)	54(3)	0.0(5)	1164(5)	42	9.9
LM11	11.20	A	08/01/2012	1710	21(5)	3(3)	6(5)	0(1)	8(1)	8(1)	2(5)	19(3)	14(5)	57(5)	0.0(5)	446(5)	44	9.8
LM11	11.20	A	09/20/2012	1710	24(5)	4(5)	7(5)	0(1)	10(1)	10(1)	4(5)	16(3)	13(5)	65(5)	0.8(3)	708(5)	44	10.0
LM12	8.30	A	07/11/2012	1713	23(5)	3(3)	4(3)	1(1)	10(1)	12(1)	13(5)	15(5)	11(5)	63(5)	1.1(3)	310(3)	40	9.6

♦ - IBI is low end adjusted.

\* - < 200 Total individuals in sample

\*\* - < 50 Total individuals in sample

Appendix Table 5!1. Ohio Boatable IBI scores and metrics at boat sites in sampled in Little Miami during 2012.

Site ID	River Mile	Type	Date	Drainage area (sq mi)	Number of				Percent of Individuals						DELTA anomalies	Rel.No. minus tolerants /(1.0 km)	Modified IBI	lwb
					Total species	Sunfish species	Sucker species	Intolerant species	Rnd-bodied suckers	Simple Lithophils	Tolerant fishes	Omnivores	Top carnivores	Insectivores				
LM12	8.30	A	09/26/2012	1713	22(5)	4(5)	5(3)	0(1)	5(1)	7(1)	4(5)	23(3)	22(5)	47(3)	0.0(5)	494(5)	42	9.7
LM13	7.10	A	07/11/2012	1720	21(5)	4(5)	5(3)	2(3)	5(1)	7(1)	15(5)	25(3)	15(5)	51(3)	0.6(3)	308(3)	40	9.8
LM13	7.10	A	09/27/2012	1720	22(5)	5(5)	4(3)	1(1)	3(1)	3(1)	4(5)	35(1)	15(5)	37(3)	0.2(5)	1150(5)	40	10.1
LM14	6.00	A	07/10/2012	1720	12(3)	0(1)	1(1)	2(3)	15(1)	16(1)	0(5)	5(5)	6(3)	87(5)	0.0(5)	248(3)	36	6.2
LM14	6.00	A	09/27/2012	1720	20(3)	3(3)	5(3)	0(1)	15(1)	16(1)	4(5)	51(1)	12(5)	28(3)	0.0(5)	690(5)	36	9.6
LM15	4.30	A	07/10/2012	1730	18(3)	3(3)	4(3)	2(3)	10(1)	11(1)	13(5)	24(3)	6(3)	60(5)	0.0(5)	198(1)	36	8.0
LM15	4.30	A	09/27/2012	1730	21(5)	3(3)	7(5)	1(1)	5(1)	5(1)	1(5)	79(1)	4(1)	14(1)	0.3(5)	1358(5)	34	9.0
LM16	3.00	A	07/10/2012	1752	21(5)	3(3)	4(3)	0(1)	9(1)	10(1)	4(5)	10(5)	16(5)	59(5)	0.0(5)	188(1) *	40	9.5
LM16	3.00	A	10/01/2012	1752	21(5)	5(5)	4(3)	0(1)	1(1)	1(1)	2(5)	60(1)	8(3)	27(3)	0.1(5)	1554(5)	38	9.8
LM17	1.40	A	07/11/2012	1760	15(3)	3(3)	3(3)	0(1)	3(1)	3(1)	6(5)	17(3)	24(5)	56(5)	0.0(5)	132(1) *	36	8.3
LM17	1.40	A	10/01/2012	1760	15(3)	2(3)	3(3)	2(3)	1(1)	1(1)	1(5)	69(1)	10(5)	21(1)	0.3(5)	698(5)	36	8.0

**13-05 - (East Fork Little Miami River)**

East Fork Little Miami River - (11100)

Year: 2012

LM34	2.00	A	08/15/2012	494	21(5)	5(5)	7(5)	1(1)	15(1)	15(1)	2(5)	37(1)	4(1)	53(3)	0.0(5)	616(5)	38	9.9
LM34	2.00	A	10/02/2012	494	18(3)	1(1)	7(5)	0(1)	11(1)	11(1)	2(5)	45(1)	5(1)	45(3)	0.4(5)	508(5)	32	9.1
LM35	1.00	A	08/15/2012	498	31(5)	4(5)	8(5)	3(3)	7(1)	12(1)	3(5)	37(1)	5(1)	53(3)	0.2(5)	862(5)	40	9.6
LM35	1.00	A	10/02/2012	498	23(5)	4(5)	7(5)	1(1)	3(1)	4(1)	3(5)	75(1)	4(1)	16(1)	0.3(5)	706(5)	36	9.2
LM36	0.70	A	08/15/2012	499	24(5)	5(5)	7(5)	0(1)	4(1)	5(1)	3(5)	58(1)	4(1)	35(3)	0.4(5)	484(5)	38	9.2
LM36	0.70	A	10/02/2012	499	15(3)	3(3)	4(3)	1(1)	2(1)	3(1)	12(5)	46(1)	7(3)	40(3)	0.4(5)	398(3)	32	9.0

♦ - IBI is low end adjusted.

\* - < 200 Total individuals in sample

\*\* - < 50 Total individuals in sample

**Appendix Table A-2. Wading IBI scores and metrics at wadeable sites sampled in the Little Miami study area during 2012.**

Site ID	River Mile	Type	Date	Drainage area (sq mi)	Number of					Percent of Individuals					Rel.No. minus tolerants /(0.3km)	Modified IBI	Iwb	
					Total species	Sunfish species	Sucker species	Intolerant species	Darter species	Simple Lithophils	Tolerant fishes	Omni-vores	Top carnivores	Insect-ivores				DELT anomalies
<b>14-01 - (Sycamore Creek)</b>																		
Sycamore Creek - (11007)																		
LM51	0.50	D	07/30/2012	24.0	18(5)	4(5)	1(1)	2(3)	3(3)	6(1)	44(3)	32(3)	2.5(3)	65(5)	0.5(5)	167(1)	38	6.9
LM51	0.50	D	09/25/2012	24.0	19(5)	4(5)	2(3)	2(3)	3(3)	5(1)	21(5)	6(5)	9.9(5)	82(5)	0.5(3)	263(3)	46	7.7
LM52	0.20	D	07/30/2012	24.0	19(5)	4(5)	3(5)	2(3)	3(3)	18(3)	5(5)	0(5)	6.7(5)	88(5)	0.0(5)	339(3)	52	8.2
LM52	0.20	D	09/25/2012	24.0	19(5)	4(5)	2(3)	2(3)	4(5)	16(1)	5(5)	0(5)	11.4(5)	80(5)	0.5(5)	314(3)	50	7.5
<b>09-02 - (O'Bannon Creek)</b>																		
O'Bannon Creek - (11010)																		
LM37	1.80	D	07/26/2012	54.3	23(5)	4(5)	3(3)	4(3)	4(3)	37(5)	22(5)	12(5)	9.1(5)	78(5)	0.0(5)	414(3)	52	9.1
LM37	1.80	D	10/03/2012	54.3	27(5)	4(5)	3(3)	3(3)	5(5)	28(3)	13(5)	11(5)	4.2(3)	76(5)	0.1(5)	899(5)	52	9.5
LM38	0.10	D	07/26/2012	59.0	18(3)	3(3)	1(1)	3(3)	3(3)	16(1)	31(3)	25(3)	5.5(5)	57(5)	0.0(5)	246(3)	38	7.1
LM38	0.10	D	10/02/2012	59.0	22(5)	3(3)	4(5)	3(3)	5(5)	28(3)	15(5)	13(5)	2.7(3)	66(5)	0.0(5)	422(3)	50	7.6
<b>13-05 - (East Fork Little Miami River)</b>																		
East Fork Little Miami River - (11100)																		
LM25	19.50	E	08/13/2012	344.0	25(5)	6(5)	3(3)	3(3)	5(3)	14(1)	9(5)	8(5)	10.2(5)	64(5)	0.4(3)	1032(5)	48	9.8
LM25	19.50	E	10/01/2012	344.0	18(3)	4(5)	3(3)	2(1)	3(1)	17(1)	22(3)	21(3)	10.9(5)	56(5)	1.0(3)	354(3)	36	8.4
LM26	15.00	D	08/13/2012	352.0	23(5)	5(5)	2(1)	3(3)	6(5)	18(1)	5(5)	4(5)	10.4(5)	78(5)	0.0(5)	780(5)	50	9.0
LM26	15.00	D	10/01/2012	352.0	22(3)	5(5)	3(3)	2(1)	5(3)	24(3)	15(5)	12(5)	10.1(5)	74(5)	0.5(3)	483(3)	44	8.7
LM27	13.70	D	08/14/2012	364.0	24(5)	5(5)	2(1)	4(3)	5(3)	10(1)	13(5)	13(5)	2.6(3)	80(5)	0.0(5)	753(5)	46	8.5
LM27	13.70	D	10/01/2012	364.0	24(5)	5(5)	4(3)	3(3)	5(3)	9(1)	29(3)	30(3)	4.8(3)	56(5)	0.6(3)	374(3)	40	8.8
LM28	13.20	D	08/14/2012	365.0	28(5)	6(5)	7(5)	2(1)	3(1)	23(3)	7(5)	10(5)	7.9(5)	72(5)	0.3(3)	497(3)	46	10.5
LM28	13.20	D	10/04/2012	365.0	26(5)	4(5)	8(5)	2(1)	4(3)	13(1)	16(5)	21(3)	6.1(5)	69(5)	0.5(3)	269(3)	44	9.1
LM29	11.00	D	08/14/2012	376.0	28(5)	5(5)	4(3)	3(3)	6(3)	6(1)	12(5)	20(3)	3.4(3)	75(5)	0.1(3)	908(5)	44	9.2
LM29	11.00	D	10/04/2012	376.0	21(3)	4(5)	4(3)	1(1)	3(1)	5(1)	13(5)	19(3)	5.5(5)	76(5)	0.2(3)	542(3)	38	8.0

na - Qualitative data, Modified Iwb not applicable.

◆ - IBI is low end adjusted.

\* - < 200 Total individuals in sample

\*\* - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

Appendix Table A-2. Wading IBI scores and metrics at wadeable sites sampled in the Little Miami study area during 2012.

Site ID	River Mile	Type	Date	Drainage area (sq mi)	Number of					Percent of Individuals					Rel.No. minus tolerants /(0.3km)	Modified IBI	lwb	
					Total species	Sunfish species	Sucker species	Intolerant species	Darter species	Simple Lithophils	Tolerant fishes	Omni-vores	Top carnivores	Insect-ivores				DELT anomalies
<b>13-05 - (East Fork Little Miami River)</b>																		
LM30	9.10	D	08/16/2012	380.0	25(5)	3(3)	3(3)	2(1)	5(3)	23(3)	3(5)	7(5)	10.1(5)	67(5)	0.0(5)	791(5)	48	9.8
LM30	9.10	D	10/03/2012	380.0	22(3)	2(3)	5(3)	2(1)	3(1)	10(1)	8(5)	8(5)	8.5(5)	70(5)	0.3(3)	407(3)	38	8.5
LM31	5.60	D	08/16/2012	485.0	25(5)	5(5)	8(5)	2(1)	2(1)	17(1)	6(5)	24(3)	10.5(5)	61(5)	0.6(3)	230(3)	42	9.7
LM31	5.60	D	10/04/2012	485.0	17(3)	3(3)	3(3)	0(1)	1(1)	6(1)	15(5)	22(3)	9.5(5)	68(5)	0.8(3)	323(3)	36	7.8
LM32	4.30	D	08/16/2012	491.0	21(3)	4(5)	5(3)	1(1)	1(1)	14(1)	4(5)	12(5)	13.6(5)	70(5)	0.0(5)	371(3)	42	8.9
LM32	4.30	D	10/04/2012	491.0	20(3)	2(3)	5(3)	1(1)	1(1)	1(1)	12(5)	14(5)	3.7(3)	82(5)	0.0(5)	884(5)	40	8.3

na - Qualitative data, Modified lwb not applicable.

◆ - IBI is low end adjusted.

\* - < 200 Total individuals in sample

\*\* - < 50 Total individuals in sampl

● - One or more species excluded from IBI calculation.



**Appendix Table A-3. Headwater IBI scores and metrics for sites sampled in the Little Miami River watershed during 2012.**

Site ID	River Mile	Type	Date	Drainage area (sq mi)	Number of						Percent of Individuals					Rel.No. minus tolerant / (0.3km)	IBI
					Total species	Minnow species	Headwater species	Sensitive species	Darter & Sculpin species	Simple Lithophils	Tolerant fishes	Omni-vores	Pioneering fishes	Insect-ivores	DELT anomalies		
<b>90-02 - (Little Miami River, O'Bannon Creek to Ohio)</b>																	
<i>Unnamed Trib to Little Miami River at RM 0.83 - (11-047)</i>																	
Year: 2012																	
LM103	0.20	F	08/30/2012	1.7	16(5)	9(5)	1(1)	6(5)	2(5)	4(5)	55(3)	6(5)	54(3)	41(5)	0.3(5)	300(5)	52
<i>Unnamed Trib to Little Miami River at RM 13.1 - (11-066)</i>																	
Year: 2012																	
LM21	1.50	F	08/14/2012	3.0	6(3)	4(3)	2(3)	1(1)	1(1)	4(5)	62(1)	2(5)	15(5)	15(1)	0.0(5)	152(3)	36
<b>14-02 - (Polk Run-Little Miami)</b>																	
<i>Polk Run - (11-009)</i>																	
Year: 2012																	
LM46	3.20	F	08/21/2012	2.6	8(3)	4(3)	1(1)	0(1)	1(1)	2(3)	87(1)	2(5)	75(1)	19(3)	0.0(5)	64(1)	28
LM39	3.00	E	08/20/2012	2.7	9(3)	4(3)	2(3)	0(1)	2(3)	2(3)	81(1)	10(5)	65(1)	22(3)	0.7(3)	166(3)	32
LM40	0.30	E	08/20/2012	10.8	20(5)	9(5)	1(1)	8(5)	3(3)	4(3)	21(5)	15(5)	21(5)	59(5)	0.0(5)	2156(5)	52
<i>Unnamed Trib to Polk Run at RM 1.79 - (11-069)</i>																	
Year: 2012																	
LM41	2.50	F	08/22/2012	1.3	7(5)	4(5)	1(1)	0(1)	0(1)	2(3)	60(1)	4(5)	49(3)	1(1)	0.3(5)	316(5)	36
LM44	0.40	F	08/22/2012	2.4	8(3)	4(3)	1(1)	0(1)	1(1)	2(3)	88(1)	5(5)	72(1)	17(3)	0.0(5)	106(3)	30
<i>Unnamed Trib to Polk Run at RM 0.70 - (11-070)</i>																	
Year: 2012																	
LM42	2.00	F	08/21/2012	0.8	4(3)	2(3)	0(1)	0(1)	0(1)	0(1)	82(1)	0(5)	82(1)	34(5)	0.0(5)	98(3)	30
LM43	0.70	F	08/22/2012	2.5	5(3)	4(3)	1(1)	0(1)	0(1)	1(1)	70(1)	2(5)	53(3)	7(1)	0.4(5)	150(3)	28
<i>Unnamed Trib (RM 1.77) to Unnamed Trib to Polk Run - (11-071)</i>																	
Year: 2012																	
LM45	0.20	F	08/21/2012	1.1	5(3)	3(3)	1(1)	0(1)	0(1)	1(1)	71(1)	0(5)	68(1)	14(3)	0.0(5)	156(5)	30

◆ - IBI is low end adjusted.

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● - One or more species excluded from IBI calculation.

Appendix Table A-3. Headwater IBI scores and metrics for sites sampled in the Little Miami River watershed during 2012.

Site ID	River Mile	Type	Date	Drainage area (sq mi)	Number of					Percent of Individuals					Rel.No. minus tolerants /(0.3km)	IBI	
					Total species	Minnow species	Headwater species	Sensitive species	Darter & Sculpin species	Simple Lithophils	Tolerant fishes	Omni-vores	Pioneering fishes	Insect-ivores			DELT anomalies
<b>14-01 - (Sycamore Creek)</b>																	
<i>Sycamore Creek - (11-007)</i>																	
Year: 2012																	
LM47	3.50	F	08/21/2012	3.5	4(1)	3(3)	1(1)	0(1)	0(1)	2(1)	86(1)	0(5)	54(3)	0(1)	0.0(5)	262(3)	26
LM48	2.40	F	08/22/2012	4.8	3(1)	3(3)	1(1)	0(1)	0(1)	1(1)	77(1)	0(5)	53(3)	0(1)	0.0(5)	262(3)	26
LM49	1.60	F	08/22/2012	6.6	5(1)	4(3)	1(1)	0(1)	0(1)	2(1)	71(1)	5(5)	36(3)	0(1)	1.2(3)	198(3)	24
LM50	0.70	E	08/06/2012	15.1	11(3)	5(3)	2(3)	2(1)	1(1)	4(3)	60(1)	41(1)	50(3)	3(1)	0.0(5)	264(3)	28
<i>North Branch Sycamore Creek - (11-008)</i>																	
Year: 2012																	
LM57	5.00	F	08/23/2012	2.9	7(3)	4(3)	1(1)	0(1)	0(1)	2(3)	42(3)	2(5)	37(3)	1(1)	0.0(5)	758(5)	34
LM58	4.30	E	08/23/2012	4.4	8(3)	5(3)	2(3)	0(1)	1(1)	2(1)	34(5)	6(5)	22(5)	7(1)	1.1(3)	1906(5)	36
LM59	2.10	E	08/23/2012	7.3	11(3)	5(3)	2(3)	1(1)	2(3)	3(3)	37(3)	22(3)	36(3)	19(1)	0.1(5)	1316(5)	36
LM60	0.50	F	08/27/2012	9.8	11(3)	5(3)	2(3)	2(1)	3(3)	4(3)	52(3)	35(1)	41(3)	10(1)	0.0(5)	2530(5)	34
LM61	0.10	F	08/23/2012	10.0	24(5)	11(5)	2(3)	8(5)	3(3)	6(5)	34(5)	22(3)	30(5)	57(5)	0.0(5)	1198(5)	54
<i>Trib To Sycamore Cr. (RM 1.12) - (11-049)</i>																	
Year: 2012																	
LM55	1.00	F	08/25/2012	5.3	3(1)	3(3)	0(1)	0(1)	0(1)	0(1)	45(3)	1(5)	45(3)	0(1)	5.1(1)	408(3)	24
LM56	0.30	F	08/25/2012	5.6	6(1)	4(3)	2(3)	0(1)	1(1)	2(1)	53(3)	7(5)	48(3)	0(1)	0.0(5)	586(5)	32
LM53	0.10	E	09/25/2012	4.9	5(1)	4(3)	2(3)	0(1)	1(1)	1(1)	69(1)	24(3)	61(1)	1(1)	0.0(5)	432(3)	24
<i>Unnamed Trib to N Branch Sycamore Creek at RM 5.4 - (11-073)</i>																	
Year: 2012																	
LM63	0.60	F	08/28/2012	1.1	5(3)	3(3)	1(1)	0(1)	0(1)	2(3)	63(1)	1(5)	54(3)	6(1)	0.0(5)	128(5)	32

◆ - IBI is low end adjusted.

\* - < 200 Total individuals in sample

\*\* - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

**Appendix Table A-3. Headwater IBI scores and metrics for sites sampled in the Little Miami River watershed during 2012.**

Site ID	River Mile	Type	Date	Drainage area (sq mi)	Number of						Percent of Individuals					Rel.No. minustolerants/(0.3km)	IBI
					Total species	Minnow species	Headwater species	Sensitive species	Darter & Sculpin species	Simple Lithophils	Tolerant fishes	Omni-vores	Pioneering fishes	Insect-ivores	DELT anomalies		
<b>14-05 - (Dry Run-Little Miami)</b>																	
<i>Dry Run - (11-005)</i>																	
Year: 2012																	
LM66	4.10	F	08/29/2012	3.2	4(1)	3(3)	1(1)	0(1)	0(1)	1(1)	57(3)	0(5)	28(5)	0(1)	0.0(5)	126(3)	30
LM67	2.50	E	08/28/2012	4.7	10(3)	6(5)	1(1)	2(3)	2(3)	5(5)	46(3)	9(5)	23(5)	6(1)	0.0(5)	1396(5)	44
LM68	0.60	E	08/02/2012	5.4	1(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0.0(1)	0(1) * *	Dry ♦
<b>14-04 - (Duck Creek)</b>																	
<i>Duck Creek - (11-004)</i>																	
Year: 2012																	
LM71	6.00	F	08/30/2012	2.2	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0.0(1)	0(1) * *	12
LM78	5.20	E	08/15/2012	3.5	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0.0(1)	2(1) * *	12
LM72	4.60	E	08/07/2012	5.1	4(1)	3(3)	0(1)	0(1)	0(1)	0(1)	97(1)	1(5)	97(1)	95(5)	0.7(5)	8(1)	26
LM73	4.40	F	08/07/2012	5.8	1(1)	0(1)	0(1)	0(1)	0(1)	0(1)	100(1)	0(1)	100(1)	100(1)	0.0(1)	0(1) * *	12
LM75	3.30	F	08/07/2012	11.4	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0.0(1)	0(1) * *	12
LM76	2.90	F	08/15/2012	11.8	4(1)	3(1)	1(1)	0(1)	0(1)	1(1)	30(5)	2(5)	6(5)	74(5)	0.0(5)	180(1)	32
LM77	1.80	E	08/15/2012	14.3	9(3)	7(5)	1(1)	0(1)	0(1)	1(1)	56(1)	7(5)	38(3)	41(3)	0.0(5)	604(3)	32
LM79	0.90	E	08/15/2012	14.7	1(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0.0(1)	0(1) * *	Dry ♦
<i>East Fork Duck Creek - (11-051)</i>																	
Year: 2012																	
LM81	2.70	E	08/29/2012	11.8	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0.0(1)	0(1) * *	Dry ♦
LM85	1.90	E	08/16/2012	1.5	3(1)	3(3)	1(1)	0(1)	0(1)	1(1)	79(1)	0(3)	71(1)	0(1)	0.0(3)	6(1) * *	18 ♦
LM84	0.50	E	08/16/2012	2.2	4(1)	4(3)	1(1)	0(1)	0(1)	1(1)	73(1)	3(5)	68(1)	0(1)	0.9(5)	58(3)	24
LM74	0.15	E	08/07/2012	3.4	8(3)	6(5)	1(1)	0(1)	0(1)	2(1)	69(1)	14(3)	58(1)	18(3)	0.2(5)	306(3)	28
<i>Unnamed Trib to Duck Creek at RM 4.8 - (11-075)</i>																	

♦ - IBI is low end adjusted.

\* - < 200 Total individuals in sample

\*\* - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

**Appendix Table A-3. Headwater IBI scores and metrics for sites sampled in the Little Miami River watershed during 2012.**

Site ID	River Mile	Type	Date	Drainage area (sq mi)	Number of						Percent of Individuals					Rel.No. minustolerants/(0.3km)	IBI
					Total species	Minnow species	Headwater species	Sensitive species	Darter & Sculpin species	Simple Lithophils	Tolerant fishes	Omnivores	Pioneering fishes	Insectivores	DELT anomalies		
Year: 2012																	
LM80	0.20	F	08/15/2012	1.4	1(1)	0(1)	0(1)	0(1)	0(1)	0(1)	100(1)	0(1)	100(1)	100(1)	0.0(1)	0(1) * *	12
<i>Little Duck Creek - (11-076)</i>																	
Year: 2012																	
LM86	2.70	E	08/16/2012	0.4	4(3)	3(3)	1(1)	0(1)	0(1)	2(5)	82(1)	0(5)	39(3)	0(1)	0.1(5)	320(5)	34
LM87	2.60	E	08/09/2012	0.5	4(3)	3(3)	1(1)	0(1)	0(1)	2(5)	74(1)	2(5)	41(3)	0(1)	0.0(5)	246(5)	34
LM90	2.40	F	08/09/2012	0.5	4(3)	3(3)	1(1)	0(1)	0(1)	2(5)	73(1)	0(5)	47(3)	0(1)	0.0(5)	394(5)	34
LM88	1.80	F	08/09/2012	0.8	1(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0.0(1)	0(1) * *	Dry ♦
LM89	1.40	F	08/09/2012	1.1	5(3)	3(3)	1(1)	0(1)	0(1)	2(3)	73(1)	1(5)	69(1)	1(1)	0.0(5)	496(5)	30
LM91	1.00	F	08/02/2012	0.7	1(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0.0(1)	0(1) * *	Dry ♦
LM92	0.20	F	08/09/2012	1.7	1(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0.0(1)	0(1) * *	Dry ♦
<i>Unnamed Trib to Little Duck Creek at RM 4.42 - (11-077)</i>																	
Year: 2012																	
LM82	0.10	F	08/15/2012	1.4	1(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0.0(1)	0(1) * *	Dry ♦
<b>14-06 - (Clough Creek-Little)</b>																	
<i>Clough Creek - (11-002)</i>																	
Year: 2012																	
LM95	3.20	F	08/29/2012	2.1	5(3)	4(3)	1(1)	1(1)	1(1)	2(3)	79(1)	0(5)	40(3)	1(1)	0.0(5)	98(3)	30
LM96	3.00	F	08/29/2012	2.0	9(5)	6(5)	1(1)	1(1)	1(3)	3(3)	73(1)	11(3)	48(3)	12(1)	0.0(5)	404(5)	36
LM97	1.20	E	08/30/2012	7.5	10(3)	6(5)	1(1)	1(1)	1(1)	4(3)	74(1)	47(1)	65(1)	18(1)	0.0(5)	500(3)	26
LM98	0.60	F	08/30/2012	7.8	7(3)	5(3)	1(1)	1(1)	1(1)	2(1)	72(1)	20(3)	32(3)	16(1)	0.0(5)	212(3)	26
<i>McCullough Run - (11-003)</i>																	
Year: 2012																	
LM94	1.30	F	08/28/2012	1.7	12(5)	6(5)	1(1)	1(1)	1(3)	3(5)	83(1)	18(1)	79(1)	13(3)	0.0(5)	68(3)	34

♦ - IBI is low end adjusted.

\* - < 200 Total individuals in sample

\*\* - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

**Appendix Table A-3. Headwater IBI scores and metrics for sites sampled in the Little Miami River watershed during 2012.**

Site ID	River Mile	Type	Date	Drainage area (sq mi)	Number of						Percent of Individuals					Rel.No. minus tolerants /(0.3km)	IBI
					Total species	Minnow species	Headwater species	Sensitive species	Darter & Sculpin species	Simple Lithophils	Tolerant fishes	Omnivores	Pioneering fishes	Insectivores	DELT anomalies		
<i>Unnamed Trib to McCullough Run at RM 1.08 - (11-078)</i>																	
Year: 2012																	
LM93	1.50	F	08/16/2012	0.9	7(5)	4(5)	2(3)	1(3)	2(5)	2(5)	75(1)	0(5)	40(3)	10(1)	0.0(5)	138(5)	46
<i>Trib to Unnamed Trib to Clough Creek at RM3.06 - (11-079)</i>																	
Year: 2012																	
LM101	1.05	F	08/28/2012	0.7	2(1)	2(3)	1(1)	0(1)	0(1)	1(3)	100(1)	0(5)	81(1)	0(1)	0.0(5)	0(1)	24
<i>UT at RM 0.95 to UT to Clough Creek at RM 3.06 - (11-081)</i>																	
Year: 2012																	
LM100	0.20	F	08/28/2012	0.9	5(3)	4(5)	0(1)	0(1)	0(1)	0(1)	94(1)	9(3)	93(1)	23(5)	3.4(1)	22(1)	24
<b>12-08 - (Ninemile Creek-Ohio River)</b>																	
<i>Five Mile Creek - (10-001)</i>																	
Year: 2012																	
LM107	2.40	F	08/29/2012	2.6	4(1)	4(3)	1(1)	0(1)	0(1)	1(1)	72(1)	1(5)	28(5)	0(1)	0.0(5)	164(3)	28
LM108	0.10	E	08/29/2012	4.8	21(5)	9(5)	2(3)	7(5)	3(3)	6(5)	34(3)	18(3)	27(5)	53(5)	0.0(5)	832(5)	52
<i>Four Mile Creek - (10-537)</i>																	
Year: 2012																	
LM104	0.80	F	08/29/2012	1.1	2(1)	2(3)	1(1)	0(1)	0(1)	1(1)	100(1)	0(5)	82(1)	0(1)	23.5(1)	0(1) * *	18
<b>08-03 - (Turtle Creek)</b>																	
<i>Turtle Creek - (11-021)</i>																	
Year: 2012																	
RF08	6.10	E	08/08/2012	18.0	24(5)	10(5)	2(3)	9(5)	4(3)	10(5)	69(1)	64(1)	72(1)	20(1)	0.0(5)	2144(5)	40
<i>Dry Run - (11-022)</i>																	
Year: 2012																	
RF09	1.80	E	08/08/2012	5.0	11(3)	5(3)	2(3)	1(1)	2(3)	3(3)	63(1)	8(5)	26(5)	36(3)	0.0(5)	296(3)	38
<i>Newman Run - (11-030)</i>																	

◆ - IBI is low end adjusted.

\* - < 200 Total individuals in sample

\*\* - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

**Appendix Table A-3. Headwater IBI scores and metrics for sites sampled in the Little Miami River watershed during 2012.**

Site ID	River Mile	Type	Date	Drainage area (sq mi)	Number of					Percent of Individuals					Rel.No. minus tolerants /(0.3km)	IBI	
					Total species	Minnow species	Headwater species	Sensitive species	Darter & Sculpin species	Simple Lithophils	Tolerant fishes	Omni-vores	Pioneering fishes	Insect-ivores			DELT anomalies
Year: 2012																	
RF10	0.30	E	08/30/2012	9.0	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0.0(1)	0(1) * * Dry ♦

♦ - IBI is low end adjusted.

\* - < 200 Total individuals in sample

\*\* - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

# Appendix A-4: Midwest Biodiversity Institute

## Fish Species List

Rivers: *Fivemile Creek; Eightmile Creek; Trib to Eight Mile Creek @ RM 1.01; Fourmile Creek (Ohio R.); Little Miami River; Clough Creek; McCullough Run; Duck Creek; Dry Run; Sycamore Creek; North Branch Sycamore Creek*

Years: 2012

Number of Samples: 142      Data Sources: 99      Data Types: A; D; E; F

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		59	1.7	0.11	374	1.46	226.6
18-002	MOONEYE	I	R	M		2	0.1	0.00	0	0.00	15.0
20-001	SKIPJACK HERRING	P		M		23	0.6	0.04	13	0.05	21.6
20-003	GIZZARD SHAD	O		M		3934	31.5	7.48	799	10.88	25.4
40-002	BIGMOUTH BUFFALO	I		M	C	1	0.0	0.00	19	0.08	700.0
40-003	BLACK BUFFALO	I		M	C	1	0.0	0.00	120	0.47	4300.0
40-004	SMALLMOUTH BUFFALO	I		M	C	379	10.6	0.72	2892	11.25	272.5
40-005	QUILLBACK CARPSUCKER	O		M	C	46	1.3	0.09	686	2.67	532.6
40-006	RIVER CARPSUCKER	O		M	C	150	4.2	0.29	1224	4.76	291.6
40-007	HIGHFIN CARPSUCKER	O		M	C	11	0.3	0.02	124	0.48	402.7
40-008	SILVER REDHORSE	I	M	S	R	69	0.6	0.13	385	5.25	698.5
40-009	BLACK REDHORSE	I	I	S	R	89	2.5	0.17	264	1.03	106.0
40-010	GOLDEN REDHORSE	I	M	S	R	807	22.6	1.54	2047	7.96	90.6
40-011	SHORTHEAD REDHORSE	I	M	S	R	16	0.5	0.03	122	0.48	273.7
40-013	RIVER REDHORSE	I	I	S	R	21	0.6	0.04	534	2.08	909.5
40-015	NORTHERN HOG SUCKER	I	M	S	R	420	11.8	0.80	834	3.25	70.9
40-016	WHITE SUCKER	O	T	S	W	256	2.1	0.49	42	0.57	20.5
40-018	SPOTTED SUCKER	I		S	R	1	0.0	0.00	0	0.00	10.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	377	10.6	0.72	1092	4.25	103.5
43-001	COMMON CARP	O	T	M	G	104	2.9	0.20	2715	10.56	932.4
43-002	GOLDFISH	O	T	M	G	1	0.0	0.00	0	0.00	40.0
43-003	GOLDEN SHINER	I	T	M	N	2	0.0	0.00	0	0.00	5.0
43-008	STREAMLINE CHUB	I	R	S	N	2	0.1	0.00	0	0.00	1.0
43-009	GRAVEL CHUB	I	M	S	N	7	0.2	0.01	1	0.01	6.8
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	4047	32.4	7.70	20	0.28	0.6
43-013	CREEK CHUB	G	T	N	N	8051	64.4	15.31	79	1.08	1.2
43-016	SOUTH. REDBELLY DACE	H		S	N	1	0.0	0.00	0	0.00	3.0
43-020	EMERALD SHINER	I		M	N	6416	51.3	12.20	24	0.33	0.4
43-021	SILVER SHINER	I	I	S	N	19	0.5	0.04	1	0.01	3.6
43-022	ROSYFACE SHINER	I	I	S	N	20	0.2	0.04	0	0.00	1.8
43-024	SCARLET SHINER	I	M	S	N	37	0.3	0.07	0	0.01	1.2
43-025	STRIPED SHINER	I		S	N	414	3.3	0.79	4	0.07	1.4
43-026	COMMON SHINER	I		S	N	17	0.1	0.03	1	0.02	12.0
43-031	STEELCOLOR SHINER	I	P	M	N	136	3.8	0.26	17	0.07	4.5
43-032	SPOTFIN SHINER	I		M	N	694	5.6	1.32	9	0.13	1.6
43-034	SAND SHINER	I	M	M	N	452	3.6	0.86	3	0.05	0.9
43-035	MIMIC SHINER	I	I	M	N	1012	8.1	1.93	3	0.05	0.4
43-039	SILVERJAW MINNOW	I		M	N	392	11.0	0.75	13	0.05	1.2
43-041	BULLHEAD MINNOW	O		C	N	1	0.0	0.00	0	0.00	3.0

# Appendix A-4: Midwest Biodiversity Institute

## Fish Species List

Rivers: *Fivemile Creek; Eightmile Creek; Trib to Eight Mile Creek @ RM 1.01; Fourmile Creek (Ohio R.); Little Miami River; Clough Creek; McCullough Run; Duck Creek; Dry Run; Sycamore Creek; North Branch Sycamore Creek*

Years: 2012

Number of Samples: 142      Data Sources: 99      Data Types: A; D; E; F

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-042	FATHEAD MINNOW	O	T	C	N	21	0.6	0.04	0	0.00	1.3
43-043	BLUNTNOSE MINNOW	O	T	C	N	6760	54.1	12.86	22	0.30	0.4
43-044	CENTRAL STONEROLLER	H		N	N	8028	64.2	15.27	63	0.87	1.0
43-047	GRASS CARP			M	E	1	0.0	0.00	207	0.81	7400.0
47-002	CHANNEL CATFISH			C	F	269	7.5	0.51	1840	7.16	244.3
47-004	YELLOW BULLHEAD	I	T	C		106	3.0	0.20	82	0.32	27.7
47-007	FLATHEAD CATFISH	P		C	F	53	0.4	0.10	272	3.71	642.5
47-008	STONECAT MADTOM	I	I	C		23	0.6	0.04	5	0.02	8.7
47-009	MOUNTAIN MADTOM	I	R	C		5	0.1	0.01	0	0.00	1.2
57-001	WESTERN MOSQUITOFISH	I		N	E	5	0.0	0.01	0	0.00	1.0
70-001	BROOK SILVERSIDE	I	M	M		24	0.7	0.05	1	0.01	2.1
74-001	WHITE BASS	P		M	F	71	2.0	0.14	157	0.61	79.3
74-002	STRIPED BASS	P		M	E	3	0.1	0.01	104	0.41	1240.0
74-005	STR. BASS X WH. BASS				E	5	0.1	0.01	127	0.50	910.0
74-007	MORONE SP.			M		2	0.1	0.00	0	0.00	1.0
77-001	WHITE CRAPPIE	I		C	S	16	0.5	0.03	33	0.13	74.1
77-002	BLACK CRAPPIE	I		C	S	33	0.9	0.06	36	0.14	39.8
77-003	ROCK BASS	C		C	S	122	3.4	0.23	107	0.42	31.5
77-004	SMALLMOUTH BASS	C	M	C	F	973	7.8	1.85	245	3.34	31.5
77-005	SPOTTED BASS	C		C	F	544	4.4	1.03	87	1.19	20.0
77-006	LARGEMOUTH BASS	C		C	F	56	1.6	0.11	78	0.30	49.8
77-008	GREEN SUNFISH	I	T	C	S	994	8.0	1.89	48	0.66	6.1
77-009	BLUEGILL SUNFISH	I	P	C	S	794	6.4	1.51	64	0.88	10.2
77-011	LONGEAR SUNFISH	I	M	C	S	2470	19.8	4.70	118	1.61	6.0
77-012	REDEAR SUNFISH	I		C	E	9	0.3	0.02	10	0.04	41.1
77-015	GREEN SF X BLUEGILL SF					3	0.0	0.01	0	0.01	24.0
77-017	LONGEAR SF X BLUEGILL SF					3	0.0	0.01	0	0.01	16.6
77-021	GREEN SF X LONGEAR SF					9	0.1	0.02	1	0.03	27.2
80-001	SAUGER	P		S	F	31	0.9	0.06	241	0.94	277.7
80-007	SLENDERHEAD DARTER	I	R	S	D	20	0.6	0.04	1	0.01	2.4
80-011	LOGPERCH	I	M	S	D	62	1.7	0.12	28	0.11	16.3
80-014	JOHNNY DARTER	I		C	D	120	1.0	0.23	1	0.02	1.1
80-015	GREENSIDE DARTER	I	M	S	D	272	7.6	0.52	34	0.14	4.5
80-016	BANDED DARTER	I	I	S	D	185	1.5	0.35	1	0.02	1.2
80-022	RAINBOW DARTER	I	M	S	D	854	6.8	1.62	8	0.11	1.2
80-024	FANTAIL DARTER	I		C	D	647	5.2	1.23	2	0.03	0.4
80-026	SAUGER X WALLEYE	P			E	7	0.2	0.01	38	0.15	194.2
85-001	FRESHWATER DRUM		P	M		483	13.5	0.92	1369	5.33	101.2
99-997						0	0.0	0.00	0	0.00	*****



# Appendix A-4: Midwest Biodiversity Institute

## Fish Species List

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Rivers: *Fivemile Creek; Eightmile Creek; Trib to Eight Mile Creek @ RM 1.01; Fourmile Creek (Ohio R.); Little Miami River; Clough Creek; McCullough Run; Duck Creek; Dry Run; Sycamore Creek; North Branch Sycamore Creek*

Years: 2012

Number of Samples: 142      Data Sources: 99      Data Types: A; D; E; F

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-999	NO FISH					1	0.0	0.00	0	0.00	1.0
<b>No Species: 79</b>		<b>Nat. Species: 68</b>		<b>Hybrids: 5</b>		<b>Total Counted: 52571</b>		<b>Total Rel. Wt. :</b>		<b>19924</b>	

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM108 River: 10-001 Fivemile Creek RM: 0.10 Date: 08/29/2012

Time Fished: 3013 Distance: 0.150 Drainge (sq mi): 4.8 Depth: 0

Location: Dst. SR 52 on Ramp Lat: 39.04629 Long: -84.38915

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		5	10.0	0.79	64	1.08	6.4
40-008	SILVER REDHORSE	I	M	S	R	1	2.0	0.16	3800	64.38	1900.0
40-016	WHITE SUCKER	O	T	S	W	2	4.0	0.31	140	2.37	35.0
43-002	GOLDFISH	O	T	M	G	1	2.0	0.16	80	1.36	40.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	44	88.0	6.93	84	1.42	0.9
43-013	CREEK CHUB	G	T	N	N	66	132.0	10.39	172	2.91	1.3
43-020	EMERALD SHINER	I		M	N	211	422.0	33.23	258	4.37	0.6
43-025	STRIPED SHINER	I		S	N	1	2.0	0.16	6	0.10	3.0
43-032	SPOTFIN SHINER	I		M	N	5	10.0	0.79	10	0.17	1.0
43-034	SAND SHINER	I	M	M	N	19	38.0	2.99	24	0.41	0.6
43-035	MIMIC SHINER	I	I	M	N	45	90.0	7.09	36	0.61	0.4
43-043	BLUNTNOSE MINNOW	O	T	C	N	104	208.0	16.38	208	3.52	1.0
43-044	CENTRAL STONEROLLER	H		N	N	58	116.0	9.13	308	5.22	2.6
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	0.16	20	0.34	10.0
77-004	SMALLMOUTH BASS	C	M	C	F	4	8.0	0.63	104	1.76	13.0
77-005	SPOTTED BASS	C		C	F	11	22.0	1.73	240	4.07	10.9
77-008	GREEN SUNFISH	I	T	C	S	2	4.0	0.31	64	1.08	16.0
77-009	BLUEGILL SUNFISH	I	P	C	S	14	28.0	2.20	120	2.03	4.2
77-011	LONGEAR SUNFISH	I	M	C	S	8	16.0	1.26	80	1.36	5.0
77-021	GREEN SF X LONGEAR SF					2	4.0	0.31	20	0.34	5.0
80-016	BANDED DARTER	I	I	S	D	11	22.0	1.73	22	0.37	1.0
80-022	RAINBOW DARTER	I	M	S	D	19	38.0	2.99	38	0.64	1.0
80-024	FANTAIL DARTER	I		C	D	1	2.0	0.16	4	0.07	2.0

**No Species:** 22    **Nat. Species:** 21    **Hybrids:** 1    **Total Counted:** 635    **Total Rel. Wt. :** 5902

**IBI:** 52.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM107 River: 10-001 Fivemile Creek RM: 2.40 Date: 08/29/2012  
 Time Fished: 2046 Distance: 0.150 Drainge (sq mi): 2.6 Depth: 0  
 Location: adj. 5 Mile Rd. Lat: 39.05531 Long: -84.36120

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	132	264.0	44.59	662	29.50	2.5
43-013	CREEK CHUB	G	T	N	N	79	158.0	26.69	862	38.41	5.4
43-043	BLUNTNOSE MINNOW	O	T	C	N	3	6.0	1.01	80	3.57	13.3
43-044	CENTRAL STONEROLLER	H		N	N	82	164.0	27.70	640	28.52	3.9
<b>No Species:</b> 4		<b>Nat. Species:</b> 4		<b>Hybrids:</b> 0		<b>Total Counted:</b> 296		<b>Total Rel. Wt. :</b>		2244	
<b>IBI:</b> 28.0		<b>MIwb:</b> N/A									

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM105 River: 10-002 Eightmile Creek RM: 2.10 Date: 08/30/2012  
 Time Fished: 1078 Distance: 0.150 Drainge (sq mi): 0.8 Depth: 0  
 Location: behind 8456 Greenleaf Dr. Lat: 39.05518 Long: -84.31911

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-013	CREEK CHUB	G	T	N	N	1	2.0	100.00	40	100.00	20.0

**No Species:** 1      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 1      **Total Rel. Wt. :** 40

**IBI:** 12.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM106 River: 10-130 Trib to Eight Mile Creek @ RM 1.01 RM: 0.10 Date: 08/29/2012

Time Fished: 1565 Distance: 0.150 Drainge (sq mi): 1.1 Depth: 0

Location: Ust. 8 Mile Rd. Lat: 39.04577 Long: -84.33173

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	19	38.0	21.84	80	32.00	2.1
43-013	CREEK CHUB	G	T	N	N	68	136.0	78.16	170	68.00	1.2

**No Species:** 3      **Nat. Species:** 2      **Hybrids:** 0      **Total Counted:** 87      **Total Rel. Wt. :** 250

**IBI:** 18.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM104    River: 10-537    Fourmile Creek (Ohio R.)    RM: 0.80    Date: 08/29/2012  
 Time Fished: 1630    Distance: 0.150    Drainge (sq mi): 1.1    Depth: 0  
 Location: Ust. 4 mile Rd.    Lat: 39.05612    Long: -84.39961

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	3	6.0	17.65	20	22.22	3.3
43-013	CREEK CHUB	G	T	N	N	14	28.0	82.35	70	77.78	2.5

**No Species:** 2    **Nat. Species:** 2    **Hybrids:** 0    **Total Counted:** 17    **Total Rel. Wt. :** 90  
**IBI:** 18.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM17 River: 11-001 Little Miami River RM: 1.40 Date: 07/11/2012

Time Fished: 1348 Distance: 0.500 Drainge (sq mi): 1760.0 Depth: 0

Location: Start Ust. Kellogg Ave. Lat: 39.08508 Long: -84.42132

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		8	16.0	11.43	8600	21.52	537.5
20-001	SKIPJACK HERRING	P		M		2	4.0	2.86	60	0.15	15.0
20-003	GIZZARD SHAD	O		M		8	16.0	11.43	454	1.14	28.3
40-004	SMALLMOUTH BUFFALO	I		M	C	9	18.0	12.86	17200	43.05	955.5
40-006	RIVER CARPSUCKER	O		M	C	3	6.0	4.29	6500	16.27	1083.3
40-023	SMALLMOUTH REDHORSE	I	M	S	R	2	4.0	2.86	2500	6.26	625.0
43-020	EMERALD SHINER	I		M	N	13	26.0	18.57	20	0.05	0.7
43-042	FATHEAD MINNOW	O	T	C	N	1	2.0	1.43	4	0.01	2.0
74-001	WHITE BASS	P		M	F	3	6.0	4.29	2600	6.51	433.3
77-004	SMALLMOUTH BASS	C	M	C	F	1	2.0	1.43	10	0.03	5.0
77-005	SPOTTED BASS	C		C	F	3	6.0	4.29	480	1.20	80.0
77-008	GREEN SUNFISH	I	T	C	S	3	6.0	4.29	100	0.25	16.6
77-009	BLUEGILL SUNFISH	I	P	C	S	10	20.0	14.29	1140	2.85	57.0
77-011	LONGEAR SUNFISH	I	M	C	S	1	2.0	1.43	40	0.10	20.0
77-012	REDEAR SUNFISH	I		C	E	1	2.0	1.43	100	0.25	50.0
85-001	FRESHWATER DRUM		P	M		2	4.0	2.86	150	0.38	37.5

**No Species:** 16      **Nat. Species:** 15      **Hybrids:** 0      **Total Counted:** 70      **Total Rel. Wt. :** 39958

**IBI:** 36.0      **MIwb:** 8.3

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM17 River: 11-001 Little Miami River RM: 1.40 Date: 10/01/2012  
 Time Fished: 1429 Distance: 0.500 Drainge (sq mi): 1760.0 Depth: 0  
 Location: Start Ust. Kellogg Ave. Lat: 39.08508 Long: -84.42132

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
18-002	MOONEYE	I	R	M		2	4.0	0.57	60	0.12	15.0
20-001	SKIPJACK HERRING	P		M		2	4.0	0.57	40	0.08	10.0
20-003	GIZZARD SHAD	O		M		237	474.0	67.33	12700	26.31	26.7
40-004	SMALLMOUTH BUFFALO	I		M	C	2	4.0	0.57	7000	14.50	1750.0
40-006	RIVER CARPSUCKER	O		M	C	2	4.0	0.57	4400	9.12	1100.0
40-010	GOLDEN REDHORSE	I	M	S	R	2	4.0	0.57	2600	5.39	650.0
43-020	EMERALD SHINER	I		M	N	60	120.0	17.05	300	0.62	2.5
43-021	SILVER SHINER	I	I	S	N	1	2.0	0.28	6	0.01	3.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	3	6.0	0.85	16	0.03	2.6
43-047	GRASS CARP			M	E	1	2.0	0.28	14800	30.66	7400.0
74-001	WHITE BASS	P		M	F	4	8.0	1.14	4300	8.91	537.5
77-004	SMALLMOUTH BASS	C	M	C	F	1	2.0	0.28	40	0.08	20.0
77-005	SPOTTED BASS	C		C	F	28	56.0	7.95	1440	2.98	25.7
77-009	BLUEGILL SUNFISH	I	P	C	S	1	2.0	0.28	200	0.41	100.0
77-011	LONGEAR SUNFISH	I	M	C	S	4	8.0	1.14	90	0.19	11.2
77-012	REDEAR SUNFISH	I		C	E	1	2.0	0.28	60	0.12	30.0
80-001	SAUGER	P		S	F	1	2.0	0.28	220	0.46	110.0

**No Species:** 17      **Nat. Species:** 15      **Hybrids:** 0      **Total Counted:** 352      **Total Rel. Wt. :** 48272  
**IBI:** 36.0      **MIwb:** 8.0



# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM16 River: 11-001 Little Miami River RM: 3.00 Date: 07/10/2012

Time Fished: 1798 Distance: 0.500 Drainge (sq mi): 1752.0 Depth: 0

Location: Lat: 39.10470 Long: -84.40890

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	2.0	1.02	1200	1.63	600.0
20-003	GIZZARD SHAD	O		M		4	8.0	4.08	840	1.14	105.0
40-004	SMALLMOUTH BUFFALO	I		M	C	13	26.0	13.27	34300	46.70	1319.2
40-006	RIVER CARPSUCKER	O		M	C	3	6.0	3.06	5100	6.94	850.0
40-010	GOLDEN REDHORSE	I	M	S	R	3	6.0	3.06	3720	5.06	620.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	6	12.0	6.12	6200	8.44	516.6
43-001	COMMON CARP	O	T	M	G	1	2.0	1.02	1000	1.36	500.0
43-020	EMERALD SHINER	I		M	N	8	16.0	8.16	10	0.01	0.6
43-032	SPOTFIN SHINER	I		M	N	2	4.0	2.04	10	0.01	2.5
43-034	SAND SHINER	I	M	M	N	7	14.0	7.14	6	0.01	0.4
43-043	BLUNTNOSE MINNOW	O	T	C	N	2	4.0	2.04	2	0.00	0.5
47-002	CHANNEL CATFISH			C	F	6	12.0	6.12	4820	6.56	401.6
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	1.02	5200	7.08	2600.0
74-002	STRIPED BASS	P		M	E	1	2.0	1.02	6000	8.17	3000.0
74-007	MORONE SP.			M		2	4.0	2.04	4	0.01	1.0
77-004	SMALLMOUTH BASS	C	M	C	F	9	18.0	9.18	1040	1.42	57.7
77-005	SPOTTED BASS	C		C	F	1	2.0	1.02	100	0.14	50.0
77-006	LARGEMOUTH BASS	C		C	F	2	4.0	2.04	1554	2.12	388.5
77-008	GREEN SUNFISH	I	T	C	S	1	2.0	1.02	80	0.11	40.0
77-009	BLUEGILL SUNFISH	I	P	C	S	8	16.0	8.16	300	0.41	18.7
77-011	LONGEAR SUNFISH	I	M	C	S	10	20.0	10.20	560	0.76	28.0
80-001	SAUGER	P		S	F	1	2.0	1.02	1200	1.63	600.0
85-001	FRESHWATER DRUM		P	M		6	12.0	6.12	202	0.28	16.8

**No Species:** 23    **Nat. Species:** 21    **Hybrids:** 0    **Total Counted:** 98    **Total Rel. Wt. :** 73448

**IBI:** 40.0    **MIwb:** 9.5

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM16 River: 11-001 Little Miami River RM: 3.00 Date: 10/01/2012

Time Fished: 2238 Distance: 0.500 Drainge (sq mi): 1752.0 Depth: 0

Location: Lat: 39.10470 Long: -84.40890

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-001	SKIPJACK HERRING	P		M		5	10.0	0.63	82	0.05	8.2
20-003	GIZZARD SHAD	O		M		458	916.0	58.05	21660	12.51	23.6
40-004	SMALLMOUTH BUFFALO	I		M	C	9	18.0	1.14	21600	12.48	1200.0
40-006	RIVER CARPSUCKER	O		M	C	11	22.0	1.39	25600	14.79	1163.6
40-010	GOLDEN REDHORSE	I	M	S	R	6	12.0	0.76	8120	4.69	676.6
40-023	SMALLMOUTH REDHORSE	I	M	S	R	2	4.0	0.25	2500	1.44	625.0
43-001	COMMON CARP	O	T	M	G	7	14.0	0.89	33000	19.06	2357.1
43-020	EMERALD SHINER	I		M	N	147	294.0	18.63	848	0.49	2.8
43-031	STEELCOLOR SHINER	I	P	M	N	1	2.0	0.13	8	0.00	4.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	1	2.0	0.13	4	0.00	2.0
47-002	CHANNEL CATFISH			C	F	15	30.0	1.90	39580	22.87	1319.3
47-007	FLATHEAD CATFISH	P		C	F	4	8.0	0.51	3860	2.23	482.5
74-001	WHITE BASS	P		M	F	3	6.0	0.38	120	0.07	20.0
77-001	WHITE CRAPPIE	I		C	S	5	10.0	0.63	2400	1.39	240.0
77-002	BLACK CRAPPIE	I		C	S	3	6.0	0.38	980	0.57	163.3
77-004	SMALLMOUTH BASS	C	M	C	F	2	4.0	0.25	260	0.15	65.0
77-005	SPOTTED BASS	C		C	F	49	98.0	6.21	5480	3.17	55.9
77-008	GREEN SUNFISH	I	T	C	S	4	8.0	0.51	80	0.05	10.0
77-009	BLUEGILL SUNFISH	I	P	C	S	8	16.0	1.01	460	0.27	28.7
77-011	LONGEAR SUNFISH	I	M	C	S	27	54.0	3.42	580	0.34	10.7
77-012	REDEAR SUNFISH	I		C	E	1	2.0	0.13	80	0.05	40.0
77-021	GREEN SF X LONGEAR SF					1	2.0	0.13	80	0.05	40.0
80-001	SAUGER	P		S	F	1	2.0	0.13	1400	0.81	700.0
85-001	FRESHWATER DRUM		P	M		19	38.0	2.41	4320	2.50	113.6

**No Species:** 23    **Nat. Species:** 21    **Hybrids:** 1    **Total Counted:** 789    **Total Rel. Wt. :** 173102

**IBI:** 38.0    **MIwb:** 9.8

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM15 River: 11-001 Little Miami River RM: 4.30 Date: 07/10/2012

Time Fished: 1071 Distance: 0.500 Drainge (sq mi): 1730.0 Depth: 0

Location: At. Otto Armlender Park Canoe Lauch Lat: 39.12145 Long: -84.39675

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		13	26.0	11.40	2060	5.18	79.2
40-004	SMALLMOUTH BUFFALO	I		M	C	9	18.0	7.89	28500	71.64	1583.3
40-010	GOLDEN REDHORSE	I	M	S	R	3	6.0	2.63	2720	6.84	453.3
40-015	NORTHERN HOG SUCKER	I	M	S	R	2	4.0	1.75	466	1.17	116.5
40-023	SMALLMOUTH REDHORSE	I	M	S	R	6	12.0	5.26	4780	12.01	398.3
43-020	EMERALD SHINER	I		M	N	29	58.0	25.44	52	0.13	0.9
43-031	STEELCOLOR SHINER	I	P	M	N	6	12.0	5.26	54	0.14	4.5
43-032	SPOTFIN SHINER	I		M	N	5	10.0	4.39	36	0.09	3.6
43-035	MIMIC SHINER	I	I	M	N	2	4.0	1.75	2	0.01	0.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	14	28.0	12.28	24	0.06	0.8
43-044	CENTRAL STONEROLLER	H		N	N	3	6.0	2.63	12	0.03	2.0
47-002	CHANNEL CATFISH			C	F	1	2.0	0.88	40	0.10	20.0
77-004	SMALLMOUTH BASS	C	M	C	F	7	14.0	6.14	110	0.28	7.8
77-008	GREEN SUNFISH	I	T	C	S	1	2.0	0.88	20	0.05	10.0
77-009	BLUEGILL SUNFISH	I	P	C	S	1	2.0	0.88	10	0.03	5.0
77-011	LONGEAR SUNFISH	I	M	C	S	3	6.0	2.63	120	0.30	20.0
80-016	BANDED DARTER	I	I	S	D	1	2.0	0.88	2	0.01	1.0
85-001	FRESHWATER DRUM		P	M		8	16.0	7.02	776	1.95	48.5

**No Species:** 18    **Nat. Species:** 18    **Hybrids:** 0    **Total Counted:** 114    **Total Rel. Wt. :** 39784

**IBI:** 36.0    **MIwb:** 8.0

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM15 River: 11-001 Little Miami River RM: 4.30 Date: 09/27/2012

Time Fished: 1104 Distance: 0.500 Drainge (sq mi): 1730.0 Depth: 0

Location: At. Otto Armlender Park Canoe Lauch Lat: 39.12145 Long: -84.39675

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-001	SKIPJACK HERRING	P		M		1	2.0	0.15	20	0.01	10.0
20-003	GIZZARD SHAD	O		M		533	1066.0	78.04	42180	31.23	39.5
40-004	SMALLMOUTH BUFFALO	I		M	C	9	18.0	1.32	37120	27.48	2062.2
40-005	QUILLBACK CARPSUCKER	O		M	C	1	2.0	0.15	700	0.52	350.0
40-006	RIVER CARPSUCKER	O		M	C	2	4.0	0.29	5000	3.70	1250.0
40-010	GOLDEN REDHORSE	I	M	S	R	3	6.0	0.44	2300	1.70	383.3
40-015	NORTHERN HOG SUCKER	I	M	S	R	7	14.0	1.02	3690	2.73	263.5
40-018	SPOTTED SUCKER	I		S	R	1	2.0	0.15	20	0.01	10.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	23	46.0	3.37	25800	19.10	560.8
43-001	COMMON CARP	O	T	M	G	2	4.0	0.29	2860	2.12	715.0
43-020	EMERALD SHINER	I		M	N	31	62.0	4.54	174	0.13	2.8
43-032	SPOTFIN SHINER	I		M	N	5	10.0	0.73	24	0.02	2.4
43-035	MIMIC SHINER	I	I	M	N	2	4.0	0.29	4	0.00	1.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	1	2.0	0.15	8	0.01	4.0
47-002	CHANNEL CATFISH			C	F	10	20.0	1.46	8240	6.10	412.0
74-001	WHITE BASS	P		M	F	11	22.0	1.61	2700	2.00	122.7
77-004	SMALLMOUTH BASS	C	M	C	F	12	24.0	1.76	3070	2.27	127.9
77-005	SPOTTED BASS	C		C	F	6	12.0	0.88	220	0.16	18.3
77-008	GREEN SUNFISH	I	T	C	S	1	2.0	0.15	60	0.04	30.0
77-009	BLUEGILL SUNFISH	I	P	C	S	2	4.0	0.29	180	0.13	45.0
77-011	LONGEAR SUNFISH	I	M	C	S	11	22.0	1.61	156	0.12	7.0
85-001	FRESHWATER DRUM		P	M		9	18.0	1.32	540	0.40	30.0

**No Species:** 22    **Nat. Species:** 21    **Hybrids:** 0    **Total Counted:** 683    **Total Rel. Wt. :** 135066

**IBI:** 34.0    **MIwb:** 9.0

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM14 River: 11-001 Little Miami River RM: 6.00 Date: 07/10/2012  
 Time Fished: 1082 Distance: 0.500 Drainge (sq mi): 1720.0 Depth: 0  
 Location: Ust. Duck Cr./ Adj. Mariemont Gardens Park Lat: 39.13388 Long: -84.38654

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		2	4.0	1.61	2060	24.10	515.0
20-003	GIZZARD SHAD	O		M		6	12.0	4.84	680	7.96	56.6
40-015	NORTHERN HOG SUCKER	I	M	S	R	18	36.0	14.52	5460	63.87	151.6
43-008	STREAMLINE CHUB	I	R	S	N	2	4.0	1.61	8	0.09	2.0
43-020	EMERALD SHINER	I		M	N	81	162.0	65.32	60	0.70	0.3
43-032	SPOTFIN SHINER	I		M	N	3	6.0	2.42	8	0.09	1.3
43-034	SAND SHINER	I	M	M	N	3	6.0	2.42	2	0.02	0.3
47-009	MOUNTAIN MADTOM	I	R	C		1	2.0	0.81	2	0.02	1.0
74-001	WHITE BASS	P		M	F	1	2.0	0.81	2	0.02	1.0
77-004	SMALLMOUTH BASS	C	M	C	F	3	6.0	2.42	110	1.29	18.3
77-005	SPOTTED BASS	C		C	F	1	2.0	0.81	10	0.12	5.0
85-001	FRESHWATER DRUM		P	M		3	6.0	2.42	146	1.71	24.3

**No Species:** 12    **Nat. Species:** 12    **Hybrids:** 0    **Total Counted:** 124    **Total Rel. Wt. :** 8548  
**IBI:** 36.0    **MIwb:** 6.2

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM14 River: 11-001 Little Miami River RM: 6.00 Date: 09/27/2012

Time Fished: 1809 Distance: 0.500 Drainge (sq mi): 1720.0 Depth: 0

Location: Ust. Duck Cr./ Adj. Mariemont Gardens Park Lat: 39.13388 Long: -84.38654

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		174	348.0	48.47	4170	3.40	11.9
40-004	SMALLMOUTH BUFFALO	I		M	C	9	18.0	2.51	47200	38.50	2622.2
40-006	RIVER CARPSUCKER	O		M	C	1	2.0	0.28	2300	1.88	1150.0
40-010	GOLDEN REDHORSE	I	M	S	R	7	14.0	1.95	2230	1.82	159.2
40-015	NORTHERN HOG SUCKER	I	M	S	R	34	68.0	9.47	23740	19.36	349.1
40-023	SMALLMOUTH REDHORSE	I	M	S	R	12	24.0	3.34	11210	9.14	467.0
43-001	COMMON CARP	O	T	M	G	1	2.0	0.28	4200	3.43	2100.0
43-009	GRAVEL CHUB	I	M	S	N	5	10.0	1.39	78	0.06	7.8
43-020	EMERALD SHINER	I		M	N	4	8.0	1.11	10	0.01	1.2
43-031	STEELCOLOR SHINER	I	P	M	N	4	8.0	1.11	62	0.05	7.7
43-032	SPOTFIN SHINER	I		M	N	1	2.0	0.28	8	0.01	4.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	8	16.0	2.23	46	0.04	2.8
47-002	CHANNEL CATFISH			C	F	27	54.0	7.52	13320	10.87	246.6
74-001	WHITE BASS	P		M	F	3	6.0	0.84	700	0.57	116.6
77-003	ROCK BASS	C		C	S	2	4.0	0.56	240	0.20	60.0
77-004	SMALLMOUTH BASS	C	M	C	F	25	50.0	6.96	8810	7.19	176.2
77-005	SPOTTED BASS	C		C	F	14	28.0	3.90	400	0.33	14.2
77-008	GREEN SUNFISH	I	T	C	S	5	10.0	1.39	80	0.07	8.0
77-011	LONGEAR SUNFISH	I	M	C	S	18	36.0	5.01	120	0.10	3.3
80-011	LOGPERCH	I	M	S	D	1	2.0	0.28	10	0.01	5.0
85-001	FRESHWATER DRUM		P	M		4	8.0	1.11	3660	2.99	457.5

**No Species:** 21    **Nat. Species:** 20    **Hybrids:** 0    **Total Counted:** 359    **Total Rel. Wt. :** 122594

**IBI:** 36.0    **MIwb:** 9.6

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM13 River: 11-001 Little Miami River RM: 7.10 Date: 07/11/2012  
 Time Fished: 1812 Distance: 0.500 Drainge (sq mi): 1720.0 Depth: 0  
 Location: Ust. Train Tracks below boulder field Lat: 39.14097 Long: -84.36674

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		4	8.0	2.21	506	0.42	63.2
20-003	GIZZARD SHAD	O		M		15	30.0	8.29	2900	2.43	96.6
40-004	SMALLMOUTH BUFFALO	I		M	C	8	16.0	4.42	15200	12.73	950.0
40-006	RIVER CARPSUCKER	O		M	C	10	20.0	5.52	18800	15.74	940.0
40-008	SILVER REDHORSE	I	M	S	R	3	6.0	1.66	3000	2.51	500.0
40-010	GOLDEN REDHORSE	I	M	S	R	5	10.0	2.76	3402	2.85	340.2
40-015	NORTHERN HOG SUCKER	I	M	S	R	1	2.0	0.55	400	0.33	200.0
43-001	COMMON CARP	O	T	M	G	6	12.0	3.31	31000	25.95	2583.3
43-020	EMERALD SHINER	I		M	N	8	16.0	4.42	20	0.02	1.2
43-032	SPOTFIN SHINER	I		M	N	2	4.0	1.10	6	0.01	1.5
43-042	FATHEAD MINNOW	O	T	C	N	1	2.0	0.55	2	0.00	1.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	13	26.0	7.18	10	0.01	0.3
47-002	CHANNEL CATFISH			C	F	11	22.0	6.08	22502	18.84	1022.8
47-007	FLATHEAD CATFISH	P		C	F	7	14.0	3.87	10200	8.54	728.5
77-001	WHITE CRAPPIE	I		C	S	1	2.0	0.55	80	0.07	40.0
77-005	SPOTTED BASS	C		C	F	16	32.0	8.84	2180	1.83	68.1
77-008	GREEN SUNFISH	I	T	C	S	7	14.0	3.87	140	0.12	10.0
77-009	BLUEGILL SUNFISH	I	P	C	S	12	24.0	6.63	520	0.44	21.6
77-011	LONGEAR SUNFISH	I	M	C	S	42	84.0	23.20	1460	1.22	17.3
80-007	SLENDERHEAD DARTER	I	R	S	D	2	4.0	1.10	10	0.01	2.5
80-016	BANDED DARTER	I	I	S	D	1	2.0	0.55	2	0.00	1.0
85-001	FRESHWATER DRUM		P	M		6	12.0	3.31	7100	5.94	591.6

**No Species:** 22    **Nat. Species:** 21    **Hybrids:** 0    **Total Counted:** 181    **Total Rel. Wt. :** 119440

**IBI:** 40.0    **MIwb:** 9.8

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM13 River: 11-001 Little Miami River RM: 7.10 Date: 09/27/2012

Time Fished: 1791 Distance: 0.500 Drainge (sq mi): 1720.0 Depth: 0

Location: Ust. Train Tracks below boulder field Lat: 39.14097 Long: -84.36674

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		182	364.0	30.23	16300	19.76	44.7
40-004	SMALLMOUTH BUFFALO	I		M	C	5	10.0	0.83	10700	12.97	1070.0
40-006	RIVER CARPSUCKER	O		M	C	6	12.0	1.00	5690	6.90	474.1
40-010	GOLDEN REDHORSE	I	M	S	R	12	24.0	1.99	3920	4.75	163.3
40-023	SMALLMOUTH REDHORSE	I	M	S	R	5	10.0	0.83	3100	3.76	310.0
43-001	COMMON CARP	O	T	M	G	5	10.0	0.83	13900	16.85	1390.0
43-020	EMERALD SHINER	I		M	N	75	150.0	12.46	288	0.35	1.9
43-031	STEELCOLOR SHINER	I	P	M	N	2	4.0	0.33	12	0.01	3.0
43-032	SPOTFIN SHINER	I		M	N	11	22.0	1.83	64	0.08	2.9
43-035	MIMIC SHINER	I	I	M	N	2	4.0	0.33	2	0.00	0.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	15	30.0	2.49	54	0.07	1.8
47-002	CHANNEL CATFISH			C	F	4	8.0	0.66	8500	10.30	1062.5
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	0.17	360	0.44	180.0
74-001	WHITE BASS	P		M	F	4	8.0	0.66	360	0.44	45.0
74-005	STR. BASS X WH. BASS				E	1	2.0	0.17	4500	5.45	2250.0
77-001	WHITE CRAPPIE	I		C	S	2	4.0	0.33	440	0.53	110.0
77-002	BLACK CRAPPIE	I		C	S	2	4.0	0.33	340	0.41	85.0
77-004	SMALLMOUTH BASS	C	M	C	F	30	60.0	4.98	3220	3.90	53.6
77-005	SPOTTED BASS	C		C	F	53	106.0	8.80	1860	2.25	17.5
77-008	GREEN SUNFISH	I	T	C	S	7	14.0	1.16	300	0.36	21.4
77-009	BLUEGILL SUNFISH	I	P	C	S	17	34.0	2.82	1200	1.45	35.2
77-011	LONGEAR SUNFISH	I	M	C	S	80	160.0	13.29	1304	1.58	8.1
80-001	SAUGER	P		S	F	1	2.0	0.17	180	0.22	90.0
85-001	FRESHWATER DRUM		P	M		80	160.0	13.29	5900	7.15	36.8

**No Species:** 23    **Nat. Species:** 22    **Hybrids:** 1    **Total Counted:** 602    **Total Rel. Wt. :** 82494

**IBI:** 40.0    **MIwb:** 10.1



# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM12 River: 11-001 Little Miami River RM: 8.30 Date: 07/11/2012

Time Fished: 1344 Distance: 0.500 Drainge (sq mi): 1713.0 Depth: 0

Location: Lat: 39.13640 Long: -84.35030

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		3	6.0	1.69	1704	3.06	284.0
20-003	GIZZARD SHAD	O		M		11	22.0	6.18	3900	7.01	177.2
40-006	RIVER CARPSUCKER	O		M	C	2	4.0	1.12	3800	6.83	950.0
40-010	GOLDEN REDHORSE	I	M	S	R	1	2.0	0.56	1300	2.34	650.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	7	14.0	3.93	2120	3.81	151.4
40-023	SMALLMOUTH REDHORSE	I	M	S	R	10	20.0	5.62	6620	11.91	331.0
43-009	GRAVEL CHUB	I	M	S	N	2	4.0	1.12	18	0.03	4.5
43-020	EMERALD SHINER	I		M	N	25	50.0	14.04	86	0.15	1.7
43-031	STEELCOLOR SHINER	I	P	M	N	20	40.0	11.24	208	0.37	5.2
43-032	SPOTFIN SHINER	I		M	N	3	6.0	1.69	14	0.03	2.3
43-043	BLUNTNOSE MINNOW	O	T	C	N	13	26.0	7.30	26	0.05	1.0
43-044	CENTRAL STONEROLLER	H		N	N	2	4.0	1.12	14	0.03	3.5
47-002	CHANNEL CATFISH			C	F	9	18.0	5.06	11406	20.51	633.6
47-004	YELLOW BULLHEAD	I	T	C		5	10.0	2.81	17500	31.47	1750.0
47-009	MOUNTAIN MADTOM	I	R	C		2	4.0	1.12	6	0.01	1.5
77-004	SMALLMOUTH BASS	C	M	C	F	9	18.0	5.06	100	0.18	5.5
77-005	SPOTTED BASS	C		C	F	6	12.0	3.37	404	0.73	33.6
77-006	LARGEMOUTH BASS	C		C	F	1	2.0	0.56	600	1.08	300.0
77-008	GREEN SUNFISH	I	T	C	S	5	10.0	2.81	160	0.29	16.0
77-009	BLUEGILL SUNFISH	I	P	C	S	8	16.0	4.49	442	0.79	27.6
77-011	LONGEAR SUNFISH	I	M	C	S	24	48.0	13.48	660	1.19	13.7
80-001	SAUGER	P		S	F	1	2.0	0.56	500	0.90	250.0
85-001	FRESHWATER DRUM		P	M		9	18.0	5.06	4016	7.22	223.1

**No Species:** 23    **Nat. Species:** 23    **Hybrids:** 0    **Total Counted:** 178    **Total Rel. Wt. :** 55604

**IBI:** 40.0    **MIwb:** 9.6

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM12 River: 11-001 Little Miami River RM: 8.30 Date: 09/26/2012

Time Fished: 1574 Distance: 0.500 Drainge (sq mi): 1713.0 Depth: 0

Location: Lat: 39.13640 Long: -84.35030

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	2.0	0.39	80	0.14	40.0
20-001	SKIPJACK HERRING	P		M		1	2.0	0.39	40	0.07	20.0
20-003	GIZZARD SHAD	O		M		51	102.0	19.92	14500	25.50	142.1
40-004	SMALLMOUTH BUFFALO	I		M	C	3	6.0	1.17	5600	9.85	933.3
40-006	RIVER CARPSUCKER	O		M	C	3	6.0	1.17	5800	10.20	966.6
40-010	GOLDEN REDHORSE	I	M	S	R	4	8.0	1.56	1160	2.04	145.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	5	10.0	1.95	2420	4.26	242.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	5	10.0	1.95	5200	9.15	520.0
43-020	EMERALD SHINER	I		M	N	27	54.0	10.55	156	0.27	2.8
43-032	SPOTFIN SHINER	I		M	N	13	26.0	5.08	84	0.15	3.2
43-034	SAND SHINER	I	M	M	N	1	2.0	0.39	2	0.00	1.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	6	12.0	2.34	24	0.04	2.0
47-002	CHANNEL CATFISH			C	F	6	12.0	2.34	15100	26.56	1258.3
74-001	WHITE BASS	P		M	F	3	6.0	1.17	1120	1.97	186.6
77-002	BLACK CRAPPIE	I		C	S	1	2.0	0.39	180	0.32	90.0
77-004	SMALLMOUTH BASS	C	M	C	F	14	28.0	5.47	1400	2.46	50.0
77-005	SPOTTED BASS	C		C	F	35	70.0	13.67	1240	2.18	17.7
77-008	GREEN SUNFISH	I	T	C	S	3	6.0	1.17	120	0.21	20.0
77-009	BLUEGILL SUNFISH	I	P	C	S	4	8.0	1.56	170	0.30	21.2
77-011	LONGEAR SUNFISH	I	M	C	S	54	108.0	21.09	920	1.62	8.5
80-001	SAUGER	P		S	F	3	6.0	1.17	460	0.81	76.6
85-001	FRESHWATER DRUM		P	M		13	26.0	5.08	1080	1.90	41.5

**No Species:** 22    **Nat. Species:** 22    **Hybrids:** 0    **Total Counted:** 256    **Total Rel. Wt. :** 56856

**IBI:** 42.0    **MIwb:** 9.7

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM11 River: 11-001 Little Miami River RM: 11.20 Date: 08/01/2012

Time Fished: 1244 Distance: 0.350 Drainge (sq mi): 1710.0 Depth: 0

Location: Dst. Confluence with E. Fork LMR Lat: 39.15251 Long: -84.30492

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		4	11.4	2.52	5142	3.85	450.0
20-001	SKIPJACK HERRING	P		M		2	5.7	1.26	60	0.04	10.5
20-003	GIZZARD SHAD	O		M		24	68.6	15.09	13999	10.48	204.1
40-004	SMALLMOUTH BUFFALO	I		M	C	9	25.7	5.66	31569	23.64	1227.7
40-006	RIVER CARPSUCKER	O		M	C	5	14.3	3.14	15427	11.55	1080.0
40-008	SILVER REDHORSE	I	M	S	R	1	2.9	0.63	2142	1.60	750.0
40-010	GOLDEN REDHORSE	I	M	S	R	5	14.3	3.14	6942	5.20	486.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	1	2.9	0.63	171	0.13	60.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	5	14.3	3.14	5714	4.28	400.0
43-020	EMERALD SHINER	I		M	N	42	120.0	26.42	128	0.10	1.0
43-031	STEELCOLOR SHINER	I	P	M	N	1	2.9	0.63	11	0.01	4.0
43-032	SPOTFIN SHINER	I		M	N	2	5.7	1.26	31	0.02	5.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	1	2.9	0.63	5	0.00	2.0
47-002	CHANNEL CATFISH			C	F	10	28.6	6.29	28769	21.55	1007.0
74-001	WHITE BASS	P		M	F	1	2.9	0.63	1142	0.86	400.0
74-005	STR. BASS X WH. BASS				E	3	8.6	1.89	15427	11.55	1800.0
77-004	SMALLMOUTH BASS	C	M	C	F	5	14.3	3.14	2342	1.75	164.0
77-005	SPOTTED BASS	C		C	F	10	28.6	6.29	5	0.00	0.2
77-008	GREEN SUNFISH	I	T	C	S	2	5.7	1.26	85	0.06	15.0
77-009	BLUEGILL SUNFISH	I	P	C	S	11	31.4	6.92	771	0.58	24.5
77-011	LONGEAR SUNFISH	I	M	C	S	11	31.4	6.92	628	0.47	20.0
85-001	FRESHWATER DRUM		P	M		4	11.4	2.52	2999	2.25	262.5

**No Species:** 21    **Nat. Species:** 21    **Hybrids:** 1    **Total Counted:** 159    **Total Rel. Wt. :** 133521

**IBI:** 44.0    **MIwb:** 9.8

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM11 River: 11-001 Little Miami River RM: 11.20 Date: 09/20/2012

Time Fished: 1184 Distance: 0.500 Drainge (sq mi): 1710.0 Depth: 0

Location: Dst. Confluence with E. Fork LMR Lat: 39.15251 Long: -84.30492

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-001	SKIPJACK HERRING	P		M		1	2.0	0.27	100	0.06	50.0
20-003	GIZZARD SHAD	O		M		45	90.0	12.23	7340	4.55	81.5
40-002	BIGMOUTH BUFFALO	I		M	C	1	2.0	0.27	1400	0.87	700.0
40-004	SMALLMOUTH BUFFALO	I		M	C	19	38.0	5.16	79600	49.39	2094.7
40-005	QUILLBACK CARPSUCKER	O		M	C	2	4.0	0.54	4000	2.48	1000.0
40-008	SILVER REDHORSE	I	M	S	R	1	2.0	0.27	1400	0.87	700.0
40-010	GOLDEN REDHORSE	I	M	S	R	7	14.0	1.90	5040	3.13	360.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	9	18.0	2.45	1040	0.65	57.7
40-023	SMALLMOUTH REDHORSE	I	M	S	R	19	38.0	5.16	10940	6.79	287.8
43-001	COMMON CARP	O	T	M	G	4	8.0	1.09	18200	11.29	2275.0
43-020	EMERALD SHINER	I		M	N	67	134.0	18.21	150	0.09	1.1
43-031	STEELCOLOR SHINER	I	P	M	N	8	16.0	2.17	72	0.04	4.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	8	16.0	2.17	34	0.02	2.1
43-044	CENTRAL STONEROLLER	H		N	N	3	6.0	0.82	62	0.04	10.3
47-002	CHANNEL CATFISH			C	F	3	6.0	0.82	4590	2.85	765.0
74-001	WHITE BASS	P		M	F	5	10.0	1.36	200	0.12	20.0
77-003	ROCK BASS	C		C	S	2	4.0	0.54	30	0.02	7.5
77-004	SMALLMOUTH BASS	C	M	C	F	25	50.0	6.79	1820	1.13	36.4
77-005	SPOTTED BASS	C		C	F	11	22.0	2.99	800	0.50	36.3
77-006	LARGEMOUTH BASS	C		C	F	1	2.0	0.27	560	0.35	280.0
77-008	GREEN SUNFISH	I	T	C	S	2	4.0	0.54	100	0.06	25.0
77-009	BLUEGILL SUNFISH	I	P	C	S	4	8.0	1.09	240	0.15	30.0
77-011	LONGEAR SUNFISH	I	M	C	S	101	202.0	27.45	1460	0.91	7.2
80-001	SAUGER	P		S	F	1	2.0	0.27	700	0.43	350.0
85-001	FRESHWATER DRUM		P	M		19	38.0	5.16	21280	13.20	560.0

**No Species:** 25    **Nat. Species:** 24    **Hybrids:** 0    **Total Counted:** 368    **Total Rel. Wt. :** 161158

**IBI:** 44.0    **MIwb:** 10.0

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM10 River: 11-001 Little Miami River RM: 11.80 Date: 08/01/2012

Time Fished: 1688 Distance: 0.500 Drainge (sq mi): 1210.0 Depth: 0

Location: Ust. Confluence with E. Fork LMR Lat: 39.15971 Long: -84.30174

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		17	34.0	3.59	5800	6.10	170.5
40-004	SMALLMOUTH BUFFALO	I		M	C	3	6.0	0.63	8050	8.46	1341.6
40-006	RIVER CARPSUCKER	O		M	C	3	6.0	0.63	5700	5.99	950.0
40-010	GOLDEN REDHORSE	I	M	S	R	31	62.0	6.54	29720	31.24	479.3
40-013	RIVER REDHORSE	I	I	S	R	1	2.0	0.21	2000	2.10	1000.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	5	10.0	1.05	2340	2.46	234.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	10	20.0	2.11	8050	8.46	402.5
43-020	EMERALD SHINER	I		M	N	160	320.0	33.76	186	0.20	0.5
43-031	STEELCOLOR SHINER	I	P	M	N	3	6.0	0.63	22	0.02	3.6
43-032	SPOTFIN SHINER	I		M	N	4	8.0	0.84	24	0.03	3.0
43-034	SAND SHINER	I	M	M	N	8	16.0	1.69	10	0.01	0.6
43-043	BLUNTNOSE MINNOW	O	T	C	N	79	158.0	16.67	124	0.13	0.7
47-002	CHANNEL CATFISH			C	F	3	6.0	0.63	5002	5.26	833.6
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	0.21	10	0.01	5.0
77-004	SMALLMOUTH BASS	C	M	C	F	45	90.0	9.49	7940	8.35	88.2
77-005	SPOTTED BASS	C		C	F	8	16.0	1.69	260	0.27	16.2
77-008	GREEN SUNFISH	I	T	C	S	10	20.0	2.11	210	0.22	10.5
77-009	BLUEGILL SUNFISH	I	P	C	S	27	54.0	5.70	662	0.70	12.2
77-011	LONGEAR SUNFISH	I	M	C	S	38	76.0	8.02	1486	1.56	19.5
80-015	GREENSIDE DARTER	I	M	S	D	1	2.0	0.21	14	0.01	7.0
80-022	RAINBOW DARTER	I	M	S	D	1	2.0	0.21	4	0.00	2.0
85-001	FRESHWATER DRUM		P	M		16	32.0	3.38	17530	18.42	547.8

**No Species:** 22    **Nat. Species:** 22    **Hybrids:** 0    **Total Counted:** 474    **Total Rel. Wt. :** 95144

**IBI:** 42.0    **MIwb:** 9.9

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM10 River: 11-001 Little Miami River RM: 11.80 Date: 09/20/2012

Time Fished: 2160 Distance: 0.500 Drainge (sq mi): 1210.0 Depth: 0

Location: Ust. Confluence with E. Fork LMR Lat: 39.15971 Long: -84.30174

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		173	346.0	28.79	25000	24.57	72.2
40-004	SMALLMOUTH BUFFALO	I		M	C	4	8.0	0.67	12200	11.99	1525.0
40-005	QUILLBACK CARPSUCKER	O		M	C	2	4.0	0.33	2600	2.56	650.0
40-010	GOLDEN REDHORSE	I	M	S	R	29	58.0	4.83	16700	16.41	287.9
40-015	NORTHERN HOG SUCKER	I	M	S	R	9	18.0	1.50	2600	2.56	144.4
40-023	SMALLMOUTH REDHORSE	I	M	S	R	4	8.0	0.67	2460	2.42	307.5
43-001	COMMON CARP	O	T	M	G	1	2.0	0.17	1800	1.77	900.0
43-020	EMERALD SHINER	I		M	N	131	262.0	21.80	360	0.35	1.3
43-031	STEELCOLOR SHINER	I	P	M	N	2	4.0	0.33	22	0.02	5.5
43-032	SPOTFIN SHINER	I		M	N	2	4.0	0.33	8	0.01	2.0
43-035	MIMIC SHINER	I	I	M	N	3	6.0	0.50	6	0.01	1.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	12	24.0	2.00	70	0.07	2.9
47-002	CHANNEL CATFISH			C	F	1	2.0	0.17	4	0.00	2.0
47-004	YELLOW BULLHEAD	I	T	C		1	2.0	0.17	100	0.10	50.0
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	0.17	10	0.01	5.0
47-009	MOUNTAIN MADTOM	I	R	C		1	2.0	0.17	2	0.00	1.0
77-004	SMALLMOUTH BASS	C	M	C	F	62	124.0	10.32	17140	16.84	138.2
77-005	SPOTTED BASS	C		C	F	14	28.0	2.33	1160	1.14	41.4
77-008	GREEN SUNFISH	I	T	C	S	5	10.0	0.83	250	0.25	25.0
77-009	BLUEGILL SUNFISH	I	P	C	S	10	20.0	1.66	330	0.32	16.5
77-011	LONGEAR SUNFISH	I	M	C	S	117	234.0	19.47	2526	2.48	10.7
77-012	REDEAR SUNFISH	I		C	E	2	4.0	0.33	100	0.10	25.0
80-001	SAUGER	P		S	F	2	4.0	0.33	2000	1.97	500.0
80-007	SLENDERHEAD DARTER	I	R	S	D	1	2.0	0.17	6	0.01	3.0
80-016	BANDED DARTER	I	I	S	D	2	4.0	0.33	2	0.00	0.5
85-001	FRESHWATER DRUM		P	M		10	20.0	1.66	14300	14.05	715.0

**No Species:** 26    **Nat. Species:** 24    **Hybrids:** 0    **Total Counted:** 601    **Total Rel. Wt. :** 101756  
**IBI:** 42.0    **MIwb:** 9.9

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM09 River: 11-001 Little Miami River RM: 12.90 Date: 08/01/2012  
 Time Fished: 1034 Distance: 0.500 Drainge (sq mi): 1200.0 Depth: 0  
 Location: Milford Canoe Launch; US 50 bridge Lat: 39.17246 Long: -84.29862

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	2.0	0.41	1500	1.20	750.0
20-001	SKIPJACK HERRING	P		M		3	6.0	1.22	64	0.05	10.6
20-003	GIZZARD SHAD	O		M		2	4.0	0.82	460	0.37	115.0
40-003	BLACK BUFFALO	I		M	C	1	2.0	0.41	8600	6.91	4300.0
40-004	SMALLMOUTH BUFFALO	I		M	C	15	30.0	6.12	45800	36.79	1526.6
40-006	RIVER CARPSUCKER	O		M	C	1	2.0	0.41	3400	2.73	1700.0
40-008	SILVER REDHORSE	I	M	S	R	1	2.0	0.41	5000	4.02	2500.0
40-010	GOLDEN REDHORSE	I	M	S	R	12	24.0	4.90	10100	8.11	420.8
40-013	RIVER REDHORSE	I	I	S	R	1	2.0	0.41	3000	2.41	1500.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	7	14.0	2.86	2600	2.09	185.7
40-023	SMALLMOUTH REDHORSE	I	M	S	R	22	44.0	8.98	17540	14.09	398.6
43-001	COMMON CARP	O	T	M	G	1	2.0	0.41	6200	4.98	3100.0
43-020	EMERALD SHINER	I		M	N	130	260.0	53.06	226	0.18	0.8
43-031	STEELCOLOR SHINER	I	P	M	N	1	2.0	0.41	6	0.00	3.0
43-035	MIMIC SHINER	I	I	M	N	2	4.0	0.82	2	0.00	0.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	1	2.0	0.41	2	0.00	1.0
47-002	CHANNEL CATFISH			C	F	5	10.0	2.04	3976	3.19	397.6
74-001	WHITE BASS	P		M	F	1	2.0	0.41	900	0.72	450.0
74-005	STR. BASS X WH. BASS				E	1	2.0	0.41	1000	0.80	500.0
77-004	SMALLMOUTH BASS	C	M	C	F	11	22.0	4.49	930	0.75	42.2
77-005	SPOTTED BASS	C		C	F	3	6.0	1.22	740	0.59	123.3
77-011	LONGEAR SUNFISH	I	M	C	S	10	20.0	4.08	400	0.32	20.0
77-021	GREEN SF X LONGEAR SF					2	4.0	0.82	240	0.19	60.0
80-026	SAUGER X WALLEYE	P			E	2	4.0	0.82	1000	0.80	250.0
85-001	FRESHWATER DRUM		P	M		9	18.0	3.67	10820	8.69	601.1

**No Species:** 22    **Nat. Species:** 21    **Hybrids:** 3    **Total Counted:** 245    **Total Rel. Wt. :** 124506  
**IBI:** 44.0    **MIwb:** 9.4

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM09 River: 11-001 Little Miami River RM: 12.90 Date: 09/20/2012

Time Fished: 1297 Distance: 0.500 Drainge (sq mi): 1200.0 Depth: 0

Location: Milford Canoe Launch; US 50 bridge Lat: 39.17246 Long: -84.29862

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-001	SKIPJACK HERRING	P		M		1	2.0	0.14	140	0.07	70.0
20-003	GIZZARD SHAD	O		M		111	222.0	15.99	23640	12.61	106.4
40-004	SMALLMOUTH BUFFALO	I		M	C	23	46.0	3.31	90900	48.47	1976.0
40-008	SILVER REDHORSE	I	M	S	R	2	4.0	0.29	7200	3.84	1800.0
40-010	GOLDEN REDHORSE	I	M	S	R	3	6.0	0.43	2440	1.30	406.6
40-013	RIVER REDHORSE	I	I	S	R	3	6.0	0.43	13800	7.36	2300.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	12	24.0	1.73	4930	2.63	205.4
40-023	SMALLMOUTH REDHORSE	I	M	S	R	41	82.0	5.91	29460	15.71	359.2
43-020	EMERALD SHINER	I		M	N	370	740.0	53.31	838	0.45	1.1
43-031	STEELCOLOR SHINER	I	P	M	N	4	8.0	0.58	44	0.02	5.5
43-032	SPOTFIN SHINER	I		M	N	2	4.0	0.29	4	0.00	1.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	1	2.0	0.14	6	0.00	3.0
47-002	CHANNEL CATFISH			C	F	4	8.0	0.58	4030	2.15	503.7
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	0.14	20	0.01	10.0
47-008	STONECAT MADTOM	I	I	C		1	2.0	0.14	8	0.00	4.0
74-001	WHITE BASS	P		M	F	1	2.0	0.14	160	0.09	80.0
77-004	SMALLMOUTH BASS	C	M	C	F	29	58.0	4.18	4140	2.21	71.3
77-005	SPOTTED BASS	C		C	F	24	48.0	3.46	570	0.30	11.8
77-008	GREEN SUNFISH	I	T	C	S	3	6.0	0.43	120	0.06	20.0
77-009	BLUEGILL SUNFISH	I	P	C	S	5	10.0	0.72	260	0.14	26.0
77-011	LONGEAR SUNFISH	I	M	C	S	49	98.0	7.06	882	0.47	9.0
77-012	REDEAR SUNFISH	I		C	E	1	2.0	0.14	80	0.04	40.0
80-001	SAUGER	P		S	F	1	2.0	0.14	600	0.32	300.0
85-001	FRESHWATER DRUM		P	M		2	4.0	0.29	3260	1.74	815.0

**No Species:** 24    **Nat. Species:** 23    **Hybrids:** 0    **Total Counted:** 694    **Total Rel. Wt. :** 187532

**IBI:** 44.0    **MIwb:** 9.7



# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM08 River: 11-001 Little Miami River RM: 17.60 Date: 07/31/2012

Time Fished: 1403 Distance: 0.500 Drainge (sq mi): 1190.0 Depth: 0

Location: Adj. Kelly Nature Preserve Lat: 39.20942 Long: -84.30300

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		3	6.0	1.89	1090	0.80	181.6
20-003	GIZZARD SHAD	O		M		1	2.0	0.63	400	0.30	200.0
40-004	SMALLMOUTH BUFFALO	I		M	C	6	12.0	3.77	28600	21.11	2383.3
40-005	QUILLBACK CARPSUCKER	O		M	C	1	2.0	0.63	1600	1.18	800.0
40-006	RIVER CARPSUCKER	O		M	C	3	6.0	1.89	5200	3.84	866.6
40-008	SILVER REDHORSE	I	M	S	R	5	10.0	3.14	17800	13.14	1780.0
40-010	GOLDEN REDHORSE	I	M	S	R	13	26.0	8.18	9860	7.28	379.2
40-013	RIVER REDHORSE	I	I	S	R	3	6.0	1.89	12400	9.15	2066.6
40-023	SMALLMOUTH REDHORSE	I	M	S	R	9	18.0	5.66	7280	5.37	404.4
43-001	COMMON CARP	O	T	M	G	1	2.0	0.63	3800	2.80	1900.0
43-020	EMERALD SHINER	I		M	N	14	28.0	8.81	18	0.01	0.6
43-031	STEELCOLOR SHINER	I	P	M	N	1	2.0	0.63	8	0.01	4.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	6	12.0	3.77	16	0.01	1.3
47-002	CHANNEL CATFISH			C	F	7	14.0	4.40	15740	11.62	1124.2
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	0.63	800	0.59	400.0
77-004	SMALLMOUTH BASS	C	M	C	F	21	42.0	13.21	3260	2.41	77.6
77-005	SPOTTED BASS	C		C	F	14	28.0	8.81	180	0.13	6.4
77-008	GREEN SUNFISH	I	T	C	S	1	2.0	0.63	100	0.07	50.0
77-009	BLUEGILL SUNFISH	I	P	C	S	19	38.0	11.95	502	0.37	13.2
77-011	LONGEAR SUNFISH	I	M	C	S	8	16.0	5.03	600	0.44	37.5
80-011	LOGPERCH	I	M	S	D	1	2.0	0.63	100	0.07	50.0
85-001	FRESHWATER DRUM		P	M		21	42.0	13.21	26148	19.30	622.5

**No Species:** 22    **Nat. Species:** 21    **Hybrids:** 0    **Total Counted:** 159    **Total Rel. Wt. :** 135502

**IBI:** 42.0    **MIwb:** 10.2

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM08 River: 11-001 Little Miami River RM: 17.60 Date: 09/19/2012

Time Fished: 1744 Distance: 0.500 Drainge (sq mi): 1190.0 Depth: 0

Location: Adj. Kelly Nature Preserve Lat: 39.20942 Long: -84.30300

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		121	242.0	22.41	27750	21.52	114.6
40-004	SMALLMOUTH BUFFALO	I		M	C	4	8.0	0.74	13900	10.78	1737.5
40-006	RIVER CARPSUCKER	O		M	C	2	4.0	0.37	5000	3.88	1250.0
40-008	SILVER REDHORSE	I	M	S	R	2	4.0	0.37	6800	5.27	1700.0
40-010	GOLDEN REDHORSE	I	M	S	R	19	38.0	3.52	11820	9.17	311.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	2	4.0	0.37	1500	1.16	375.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	49	98.0	9.07	39500	30.63	403.0
43-020	EMERALD SHINER	I		M	N	162	324.0	30.00	274	0.21	0.8
43-032	SPOTFIN SHINER	I		M	N	1	2.0	0.19	4	0.00	2.0
43-034	SAND SHINER	I	M	M	N	3	6.0	0.56	4	0.00	0.6
43-035	MIMIC SHINER	I	I	M	N	18	36.0	3.33	22	0.02	0.6
43-043	BLUNTNOSE MINNOW	O	T	C	N	33	66.0	6.11	94	0.07	1.4
47-002	CHANNEL CATFISH			C	F	3	6.0	0.56	2620	2.03	436.6
47-007	FLATHEAD CATFISH	P		C	F	2	4.0	0.37	2800	2.17	700.0
47-008	STONECAT MADTOM	I	I	C		1	2.0	0.19	10	0.01	5.0
77-004	SMALLMOUTH BASS	C	M	C	F	18	36.0	3.33	3480	2.70	96.6
77-005	SPOTTED BASS	C		C	F	20	40.0	3.70	560	0.43	14.0
77-008	GREEN SUNFISH	I	T	C	S	3	6.0	0.56	100	0.08	16.6
77-009	BLUEGILL SUNFISH	I	P	C	S	14	28.0	2.59	600	0.47	21.4
77-011	LONGEAR SUNFISH	I	M	C	S	49	98.0	9.07	900	0.70	9.1
80-001	SAUGER	P		S	F	1	2.0	0.19	1300	1.01	650.0
80-016	BANDED DARTER	I	I	S	D	1	2.0	0.19	2	0.00	1.0
85-001	FRESHWATER DRUM		P	M		12	24.0	2.22	9920	7.69	413.3

**No Species:** 23    **Nat. Species:** 23    **Hybrids:** 0    **Total Counted:** 540    **Total Rel. Wt. :** 128960

**IBI:** 42.0    **MIwb:** 10.2

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM07 River: 11-001 Little Miami River RM: 18.40 Date: 07/31/2012  
 Time Fished: 1997 Distance: 0.500 Drainge (sq mi): 1190.0 Depth: 0  
 Location: Adj. Glendale Milford Rd. Lat: 39.21709 Long: -84.31494

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	2.0	0.24	40	0.03	20.0
20-001	SKIPJACK HERRING	P		M		1	2.0	0.24	16	0.01	8.0
20-003	GIZZARD SHAD	O		M		5	10.0	1.20	1100	0.96	110.0
40-004	SMALLMOUTH BUFFALO	I		M	C	3	6.0	0.72	13500	11.80	2250.0
40-006	RIVER CARPSUCKER	O		M	C	2	4.0	0.48	4000	3.50	1000.0
40-008	SILVER REDHORSE	I	M	S	R	5	10.0	1.20	16000	13.98	1600.0
40-010	GOLDEN REDHORSE	I	M	S	R	19	38.0	4.56	14420	12.60	379.4
40-015	NORTHERN HOG SUCKER	I	M	S	R	6	12.0	1.44	2460	2.15	205.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	6	12.0	1.44	5180	4.53	431.6
43-001	COMMON CARP	O	T	M	G	2	4.0	0.48	11900	10.40	2975.0
43-020	EMERALD SHINER	I		M	N	102	204.0	24.46	150	0.13	0.7
43-032	SPOTFIN SHINER	I		M	N	4	8.0	0.96	24	0.02	3.0
43-034	SAND SHINER	I	M	M	N	4	8.0	0.96	6	0.01	0.7
43-035	MIMIC SHINER	I	I	M	N	4	8.0	0.96	12	0.01	1.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	158	316.0	37.89	180	0.16	0.5
47-002	CHANNEL CATFISH			C	F	7	14.0	1.68	17324	15.14	1237.4
47-007	FLATHEAD CATFISH	P		C	F	3	6.0	0.72	840	0.73	140.0
74-001	WHITE BASS	P		M	F	1	2.0	0.24	800	0.70	400.0
77-002	BLACK CRAPPIE	I		C	S	1	2.0	0.24	360	0.31	180.0
77-004	SMALLMOUTH BASS	C	M	C	F	25	50.0	6.00	2660	2.32	53.2
77-005	SPOTTED BASS	C		C	F	12	24.0	2.88	1740	1.52	72.5
77-008	GREEN SUNFISH	I	T	C	S	1	2.0	0.24	20	0.02	10.0
77-009	BLUEGILL SUNFISH	I	P	C	S	16	32.0	3.84	480	0.42	15.0
77-011	LONGEAR SUNFISH	I	M	C	S	14	28.0	3.36	600	0.52	21.4
85-001	FRESHWATER DRUM		P	M		15	30.0	3.60	20600	18.01	686.6

**No Species:** 25    **Nat. Species:** 24    **Hybrids:** 0    **Total Counted:** 417    **Total Rel. Wt. :** 114412  
**IBI:** 38.0    **MIwb:** 9.9

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM07 River: 11-001 Little Miami River RM: 18.40 Date: 09/19/2012

Time Fished: 2194 Distance: 0.500 Drainge (sq mi): 1190.0 Depth: 0

Location: Adj. Glendale Milford Rd. Lat: 39.21709 Long: -84.31494

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		130	260.0	26.80	8180	5.91	31.4
40-004	SMALLMOUTH BUFFALO	I		M	C	11	22.0	2.27	41000	29.60	1863.6
40-006	RIVER CARPSUCKER	O		M	C	3	6.0	0.62	5800	4.19	966.6
40-008	SILVER REDHORSE	I	M	S	R	1	2.0	0.21	4200	3.03	2100.0
40-010	GOLDEN REDHORSE	I	M	S	R	19	38.0	3.92	11574	8.36	304.5
40-013	RIVER REDHORSE	I	I	S	R	2	4.0	0.41	1040	0.75	260.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	2	4.0	0.41	3400	2.45	850.0
43-001	COMMON CARP	O	T	M	G	1	2.0	0.21	6200	4.48	3100.0
43-020	EMERALD SHINER	I		M	N	147	294.0	30.31	272	0.20	0.9
43-032	SPOTFIN SHINER	I		M	N	1	2.0	0.21	6	0.00	3.0
43-034	SAND SHINER	I	M	M	N	1	2.0	0.21	4	0.00	2.0
43-035	MIMIC SHINER	I	I	M	N	15	30.0	3.09	32	0.02	1.0
43-039	SILVERJAW MINNOW	I		M	N	1	2.0	0.21	6	0.00	3.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	30	60.0	6.19	84	0.06	1.4
47-002	CHANNEL CATFISH			C	F	10	20.0	2.06	40500	29.24	2025.0
77-003	ROCK BASS	C		C	S	1	2.0	0.21	60	0.04	30.0
77-004	SMALLMOUTH BASS	C	M	C	F	23	46.0	4.74	3200	2.31	69.5
77-005	SPOTTED BASS	C		C	F	18	36.0	3.71	720	0.52	20.0
77-008	GREEN SUNFISH	I	T	C	S	1	2.0	0.21	6	0.00	3.0
77-009	BLUEGILL SUNFISH	I	P	C	S	12	24.0	2.47	326	0.24	13.5
77-011	LONGEAR SUNFISH	I	M	C	S	39	78.0	8.04	656	0.47	8.4
80-007	SLENDERHEAD DARTER	I	R	S	D	2	4.0	0.41	8	0.01	2.0
80-011	LOGPERCH	I	M	S	D	1	2.0	0.21	6	0.00	3.0
85-001	FRESHWATER DRUM		P	M		14	28.0	2.89	11220	8.10	400.7

**No Species:** 24    **Nat. Species:** 23    **Hybrids:** 0    **Total Counted:** 485    **Total Rel. Wt. :** 138500

**IBI:** 40.0    **MIwb:** 10.0

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM06 River: 11-001 Little Miami River RM: 20.60 Date: 07/24/2012  
 Time Fished: 1823 Distance: 0.500 Drainge (sq mi): 1161.0 Depth: 0  
 Location: L. MIAMI R. ADJ LAKE ISABELLA Lat: 39.23556 Long: 84.29917

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		2	4.0	0.56	2200	2.48	550.0
20-003	GIZZARD SHAD	O		M		3	6.0	0.84	1500	1.69	250.0
40-004	SMALLMOUTH BUFFALO	I		M	C	3	6.0	0.84	6800	7.68	1133.3
40-006	RIVER CARPSUCKER	O		M	C	12	24.0	3.37	21100	23.83	879.1
40-010	GOLDEN REDHORSE	I	M	S	R	23	46.0	6.46	20760	23.44	451.3
40-015	NORTHERN HOG SUCKER	I	M	S	R	13	26.0	3.65	5200	5.87	200.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	6	12.0	1.69	3970	4.48	330.8
43-001	COMMON CARP	O	T	M	G	1	2.0	0.28	5600	6.32	2800.0
43-020	EMERALD SHINER	I		M	N	135	270.0	37.92	152	0.17	0.5
43-031	STEELCOLOR SHINER	I	P	M	N	8	16.0	2.25	148	0.17	9.2
43-032	SPOTFIN SHINER	I		M	N	5	10.0	1.40	26	0.03	2.6
43-034	SAND SHINER	I	M	M	N	5	10.0	1.40	12	0.01	1.2
43-035	MIMIC SHINER	I	I	M	N	5	10.0	1.40	18	0.02	1.8
43-043	BLUNTNOSE MINNOW	O	T	C	N	72	144.0	20.22	110	0.12	0.7
43-044	CENTRAL STONEROLLER	H		N	N	2	4.0	0.56	18	0.02	4.5
47-002	CHANNEL CATFISH			C	F	3	6.0	0.84	10400	11.74	1733.3
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	0.28	300	0.34	150.0
77-003	ROCK BASS	C		C	S	1	2.0	0.28	10	0.01	5.0
77-004	SMALLMOUTH BASS	C	M	C	F	14	28.0	3.93	2802	3.16	100.0
77-005	SPOTTED BASS	C		C	F	8	16.0	2.25	50	0.06	3.1
77-008	GREEN SUNFISH	I	T	C	S	1	2.0	0.28	10	0.01	5.0
77-009	BLUEGILL SUNFISH	I	P	C	S	13	26.0	3.65	320	0.36	12.3
77-011	LONGEAR SUNFISH	I	M	C	S	15	30.0	4.21	840	0.95	28.0
80-007	SLENDERHEAD DARTER	I	R	S	D	1	2.0	0.28	10	0.01	5.0
85-001	FRESHWATER DRUM		P	M		4	8.0	1.12	6200	7.00	775.0

**No Species:** 25    **Nat. Species:** 24    **Hybrids:** 0    **Total Counted:** 356    **Total Rel. Wt. :** 88556  
**IBI:** 42.0    **MIwb:** 9.8

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM06 River: 11-001 Little Miami River RM: 20.60 Date: 09/19/2012  
 Time Fished: 1741 Distance: 0.500 Drainge (sq mi): 1161.0 Depth: 0  
 Location: L. MIAMI R. ADJ LAKE ISABELLA Lat: 39.23556 Long: 84.29917

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		92	184.0	14.56	7720	10.20	41.9
40-004	SMALLMOUTH BUFFALO	I		M	C	2	4.0	0.32	3800	5.02	950.0
40-006	RIVER CARPSUCKER	O		M	C	8	16.0	1.27	14400	19.02	900.0
40-010	GOLDEN REDHORSE	I	M	S	R	12	24.0	1.90	9700	12.81	404.1
40-013	RIVER REDHORSE	I	I	S	R	1	2.0	0.16	3100	4.09	1550.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	9	18.0	1.42	4200	5.55	233.3
40-023	SMALLMOUTH REDHORSE	I	M	S	R	6	12.0	0.95	3356	4.43	279.6
43-001	COMMON CARP	O	T	M	G	2	4.0	0.32	10700	14.13	2675.0
43-020	EMERALD SHINER	I		M	N	237	474.0	37.50	590	0.78	1.2
43-031	STEELCOLOR SHINER	I	P	M	N	3	6.0	0.47	6	0.01	1.0
43-032	SPOTFIN SHINER	I		M	N	5	10.0	0.79	12	0.02	1.2
43-035	MIMIC SHINER	I	I	M	N	79	158.0	12.50	62	0.08	0.3
43-043	BLUNTNOSE MINNOW	O	T	C	N	38	76.0	6.01	66	0.09	0.8
43-044	CENTRAL STONEROLLER	H		N	N	9	18.0	1.42	100	0.13	5.5
47-002	CHANNEL CATFISH			C	F	5	10.0	0.79	8460	11.17	846.0
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	0.16	500	0.66	250.0
47-009	MOUNTAIN MADTOM	I	R	C		1	2.0	0.16	2	0.00	1.0
70-001	BROOK SILVERSIDE	I	M	M		1	2.0	0.16	2	0.00	1.0
74-001	WHITE BASS	P		M	F	2	4.0	0.32	240	0.32	60.0
77-003	ROCK BASS	C		C	S	2	4.0	0.32	100	0.13	25.0
77-004	SMALLMOUTH BASS	C	M	C	F	34	68.0	5.38	4490	5.93	66.0
77-005	SPOTTED BASS	C		C	F	11	22.0	1.74	400	0.53	18.1
77-008	GREEN SUNFISH	I	T	C	S	2	4.0	0.32	20	0.03	5.0
77-009	BLUEGILL SUNFISH	I	P	C	S	6	12.0	0.95	102	0.13	8.5
77-011	LONGEAR SUNFISH	I	M	C	S	54	108.0	8.54	884	1.17	8.1
80-015	GREENSIDE DARTER	I	M	S	D	1	2.0	0.16	4	0.01	2.0
80-022	RAINBOW DARTER	I	M	S	D	1	2.0	0.16	4	0.01	2.0
85-001	FRESHWATER DRUM		P	M		8	16.0	1.27	2700	3.57	168.7

**No Species:** 28    **Nat. Species:** 27    **Hybrids:** 0    **Total Counted:** 632    **Total Rel. Wt. :** 75720  
**IBI:** 46.0    **MIwb:** 10.2

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM05 River: 11-001 Little Miami River RM: 21.25 Date: 07/17/2012

Time Fished: 1508 Distance: 0.500 Drainge (sq mi): 1160.0 Depth: 0

Location: Dst. Bridge St. Lat: 39.24639 Long: -84.29568

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		2	4.0	1.54	1800	1.08	450.0
20-003	GIZZARD SHAD	O		M		4	8.0	3.08	1520	0.91	190.0
40-004	SMALLMOUTH BUFFALO	I		M	C	20	40.0	15.38	73500	43.92	1837.5
40-005	QUILLBACK CARPSUCKER	O		M	C	1	2.0	0.77	1400	0.84	700.0
40-006	RIVER CARPSUCKER	O		M	C	1	2.0	0.77	1700	1.02	850.0
40-008	SILVER REDHORSE	I	M	S	R	2	4.0	1.54	7200	4.30	1800.0
40-010	GOLDEN REDHORSE	I	M	S	R	17	34.0	13.08	16100	9.62	473.5
40-015	NORTHERN HOG SUCKER	I	M	S	R	5	10.0	3.85	670	0.40	67.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	4	8.0	3.08	3300	1.97	412.5
43-020	EMERALD SHINER	I		M	N	5	10.0	3.85	18	0.01	1.8
43-032	SPOTFIN SHINER	I		M	N	2	4.0	1.54	8	0.00	2.0
43-035	MIMIC SHINER	I	I	M	N	14	28.0	10.77	30	0.02	1.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	18	36.0	13.85	40	0.02	1.1
47-002	CHANNEL CATFISH			C	F	12	24.0	9.23	37950	22.68	1581.2
74-001	WHITE BASS	P		M	F	1	2.0	0.77	400	0.24	200.0
77-004	SMALLMOUTH BASS	C	M	C	F	7	14.0	5.38	2520	1.51	180.0
77-011	LONGEAR SUNFISH	I	M	C	S	4	8.0	3.08	400	0.24	50.0
85-001	FRESHWATER DRUM		P	M		11	22.0	8.46	18800	11.23	854.5

**No Species:** 18    **Nat. Species:** 18    **Hybrids:** 0    **Total Counted:** 130    **Total Rel. Wt. :** 167356

**IBI:** 38.0    **MIwb:** 9.5

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM05 River: 11-001 Little Miami River RM: 21.25 Date: 09/13/2012  
 Time Fished: 1627 Distance: 0.500 Drainge (sq mi): 1160.0 Depth: 0  
 Location: Dst. Bridge St. Lat: 39.24639 Long: -84.29568

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	2.0	0.17	1200	1.04	600.0
20-003	GIZZARD SHAD	O		M		35	70.0	6.06	8540	7.40	122.0
40-004	SMALLMOUTH BUFFALO	I		M	C	8	16.0	1.38	30200	26.15	1887.5
40-006	RIVER CARPSUCKER	O		M	C	1	2.0	0.17	2000	1.73	1000.0
40-008	SILVER REDHORSE	I	M	S	R	1	2.0	0.17	2000	1.73	1000.0
40-009	BLACK REDHORSE	I	I	S	R	1	2.0	0.17	1200	1.04	600.0
40-010	GOLDEN REDHORSE	I	M	S	R	19	38.0	3.29	25000	21.65	657.8
40-013	RIVER REDHORSE	I	I	S	R	2	4.0	0.35	4200	3.64	1050.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	7	14.0	1.21	1050	0.91	75.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	8	16.0	1.38	6600	5.72	412.5
43-001	COMMON CARP	O	T	M	G	1	2.0	0.17	6200	5.37	3100.0
43-020	EMERALD SHINER	I		M	N	346	692.0	59.86	740	0.64	1.0
43-031	STEELCOLOR SHINER	I	P	M	N	4	8.0	0.69	72	0.06	9.0
43-032	SPOTFIN SHINER	I		M	N	2	4.0	0.35	2	0.00	0.5
43-034	SAND SHINER	I	M	M	N	2	4.0	0.35	2	0.00	0.5
43-035	MIMIC SHINER	I	I	M	N	22	44.0	3.81	36	0.03	0.8
43-043	BLUNTNOSE MINNOW	O	T	C	N	35	70.0	6.06	84	0.07	1.2
47-002	CHANNEL CATFISH			C	F	8	16.0	1.38	14300	12.38	893.7
47-004	YELLOW BULLHEAD	I	T	C		1	2.0	0.17	80	0.07	40.0
47-007	FLATHEAD CATFISH	P		C	F	2	4.0	0.35	1802	1.56	450.5
74-001	WHITE BASS	P		M	F	3	6.0	0.52	720	0.62	120.0
77-003	ROCK BASS	C		C	S	1	2.0	0.17	80	0.07	40.0
77-004	SMALLMOUTH BASS	C	M	C	F	26	52.0	4.50	2380	2.06	45.7
77-005	SPOTTED BASS	C		C	F	5	10.0	0.87	160	0.14	16.0
77-006	LARGEMOUTH BASS	C		C	F	2	4.0	0.35	80	0.07	20.0
77-009	BLUEGILL SUNFISH	I	P	C	S	6	12.0	1.04	78	0.07	6.5
77-011	LONGEAR SUNFISH	I	M	C	S	26	52.0	4.50	436	0.38	8.3
85-001	FRESHWATER DRUM		P	M		3	6.0	0.52	6240	5.40	1040.0

**No Species:** 28    **Nat. Species:** 27    **Hybrids:** 0    **Total Counted:** 578    **Total Rel. Wt. :** 115482  
**IBI:** 46.0    **MIwb:** 9.9



# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM04 River: 11-001 Little Miami River RM: 21.70 Date: 07/17/2012

Time Fished: 1358 Distance: 0.500 Drainge (sq mi): 1150.0 Depth: 0

Location: Lat: 0.00000 Long: 0.00000

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		25	50.0	12.95	6000	5.26	120.0
40-004	SMALLMOUTH BUFFALO	I		M	C	2	4.0	1.04	7800	6.83	1950.0
40-006	RIVER CARPSUCKER	O		M	C	10	20.0	5.18	20700	18.14	1035.0
40-008	SILVER REDHORSE	I	M	S	R	2	4.0	1.04	4200	3.68	1050.0
40-010	GOLDEN REDHORSE	I	M	S	R	53	106.0	27.46	52820	46.28	498.3
40-015	NORTHERN HOG SUCKER	I	M	S	R	4	8.0	2.07	1760	1.54	220.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	11	22.0	5.70	8100	7.10	368.1
43-020	EMERALD SHINER	I		M	N	15	30.0	7.77	68	0.06	2.2
43-031	STEELCOLOR SHINER	I	P	M	N	3	6.0	1.55	36	0.03	6.0
43-035	MIMIC SHINER	I	I	M	N	2	4.0	1.04	6	0.01	1.5
47-002	CHANNEL CATFISH			C	F	6	12.0	3.11	7920	6.94	660.0
77-003	ROCK BASS	C		C	S	2	4.0	1.04	360	0.32	90.0
77-004	SMALLMOUTH BASS	C	M	C	F	11	22.0	5.70	1780	1.56	80.9
77-005	SPOTTED BASS	C		C	F	6	12.0	3.11	510	0.45	42.5
77-009	BLUEGILL SUNFISH	I	P	C	S	24	48.0	12.44	800	0.70	16.6
77-011	LONGEAR SUNFISH	I	M	C	S	13	26.0	6.74	720	0.63	27.6
80-011	LOGPERCH	I	M	S	D	3	6.0	1.55	160	0.14	26.6
85-001	FRESHWATER DRUM		P	M		1	2.0	0.52	400	0.35	200.0

**No Species:** 18    **Nat. Species:** 18    **Hybrids:** 0    **Total Counted:** 193    **Total Rel. Wt. :** 114140

**IBI:** 42.0    **MIwb:** 9.5

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM04 River: 11-001 Little Miami River RM: 21.70 Date: 09/13/2012

Time Fished: 1452 Distance: 0.500 Drainge (sq mi): 1150.0 Depth: 0

Location: Lat: 0.00000 Long: 0.00000

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		83	166.0	26.95	9560	4.40	57.5
40-004	SMALLMOUTH BUFFALO	I		M	C	7	14.0	2.27	42200	19.41	3014.2
40-005	QUILLBACK CARPSUCKER	O		M	C	5	10.0	1.62	8700	4.00	870.0
40-006	RIVER CARPSUCKER	O		M	C	23	46.0	7.47	45800	21.07	995.6
40-008	SILVER REDHORSE	I	M	S	R	5	10.0	1.62	21400	9.84	2140.0
40-009	BLACK REDHORSE	I	I	S	R	1	2.0	0.32	1000	0.46	500.0
40-010	GOLDEN REDHORSE	I	M	S	R	35	70.0	11.36	32100	14.77	458.5
40-013	RIVER REDHORSE	I	I	S	R	1	2.0	0.32	5000	2.30	2500.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	3	6.0	0.97	1660	0.76	276.6
40-023	SMALLMOUTH REDHORSE	I	M	S	R	9	18.0	2.92	6100	2.81	338.8
43-001	COMMON CARP	O	T	M	G	1	2.0	0.32	4500	2.07	2250.0
43-020	EMERALD SHINER	I		M	N	45	90.0	14.61	94	0.04	1.0
43-032	SPOTFIN SHINER	I		M	N	1	2.0	0.32	14	0.01	7.0
43-035	MIMIC SHINER	I	I	M	N	3	6.0	0.97	2	0.00	0.3
43-043	BLUNTNOSE MINNOW	O	T	C	N	16	32.0	5.19	60	0.03	1.8
43-044	CENTRAL STONEROLLER	H		N	N	3	6.0	0.97	62	0.03	10.3
47-002	CHANNEL CATFISH			C	F	5	10.0	1.62	18710	8.61	1871.0
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	0.32	1800	0.83	900.0
47-008	STONECAT MADTOM	I	I	C		2	4.0	0.65	30	0.01	7.5
74-001	WHITE BASS	P		M	F	1	2.0	0.32	240	0.11	120.0
77-003	ROCK BASS	C		C	S	1	2.0	0.32	80	0.04	40.0
77-004	SMALLMOUTH BASS	C	M	C	F	11	22.0	3.57	3110	1.43	141.3
77-005	SPOTTED BASS	C		C	F	2	4.0	0.65	210	0.10	52.5
77-009	BLUEGILL SUNFISH	I	P	C	S	9	18.0	2.92	460	0.21	25.5
77-011	LONGEAR SUNFISH	I	M	C	S	24	48.0	7.79	534	0.25	11.1
80-015	GREENSIDE DARTER	I	M	S	D	2	4.0	0.65	30	0.01	7.5
80-016	BANDED DARTER	I	I	S	D	1	2.0	0.32	4	0.00	2.0
85-001	FRESHWATER DRUM		P	M		8	16.0	2.60	13920	6.40	870.0

**No Species:** 28    **Nat. Species:** 27    **Hybrids:** 0    **Total Counted:** 308    **Total Rel. Wt. :** 217380

**IBI:** 40.0    **MIwb:** 10.7

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM03 River: 11-001 Little Miami River RM: 22.10 Date: 07/17/2012

Time Fished: 1626 Distance: 0.500 Drainge (sq mi): 1148.0 Depth: 0

Location: Lat: 39.25110 Long: -84.28470

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		3	6.0	1.55	2860	8.53	476.6
20-003	GIZZARD SHAD	O		M		41	82.0	21.24	10500	31.32	128.0
40-006	RIVER CARPSUCKER	O		M	C	5	10.0	2.59	8400	25.06	840.0
40-009	BLACK REDHORSE	I	I	S	R	2	4.0	1.04	1850	5.52	462.5
40-010	GOLDEN REDHORSE	I	M	S	R	5	10.0	2.59	3120	9.31	312.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	5	10.0	2.59	1150	3.43	115.0
43-020	EMERALD SHINER	I		M	N	58	116.0	30.05	126	0.38	1.0
43-032	SPOTFIN SHINER	I		M	N	1	2.0	0.52	4	0.01	2.0
43-035	MIMIC SHINER	I	I	M	N	3	6.0	1.55	2	0.01	0.3
43-043	BLUNTNOSE MINNOW	O	T	C	N	19	38.0	9.84	72	0.21	1.8
43-044	CENTRAL STONEROLLER	H		N	N	1	2.0	0.52	4	0.01	2.0
47-002	CHANNEL CATFISH			C	F	1	2.0	0.52	2400	7.16	1200.0
47-007	FLATHEAD CATFISH	P		C	F	2	4.0	1.04	200	0.60	50.0
77-004	SMALLMOUTH BASS	C	M	C	F	10	20.0	5.18	162	0.48	8.1
77-005	SPOTTED BASS	C		C	F	8	16.0	4.15	860	2.57	53.7
77-006	LARGEMOUTH BASS	C		C	F	2	4.0	1.04	180	0.54	45.0
77-009	BLUEGILL SUNFISH	I	P	C	S	11	22.0	5.70	300	0.89	13.6
77-011	LONGEAR SUNFISH	I	M	C	S	14	28.0	7.25	1260	3.76	45.0
80-011	LOGPERCH	I	M	S	D	2	4.0	1.04	70	0.21	17.5

**No Species:** 19    **Nat. Species:** 19    **Hybrids:** 0    **Total Counted:** 193    **Total Rel. Wt. :** 33520  
**IBI:** 36.0    **MIwb:** 8.9

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM03 River: 11-001 Little Miami River RM: 22.10 Date: 09/13/2012

Time Fished: 1728 Distance: 0.500 Drainge (sq mi): 1148.0 Depth: 0

Location: Lat: 39.25110 Long: -84.28470

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		76	152.0	18.10	13140	20.16	86.4
40-004	SMALLMOUTH BUFFALO	I		M	C	1	2.0	0.24	2200	3.37	1100.0
40-005	QUILLBACK CARPSUCKER	O		M	C	1	2.0	0.24	1000	1.53	500.0
40-006	RIVER CARPSUCKER	O		M	C	1	2.0	0.24	2000	3.07	1000.0
40-010	GOLDEN REDHORSE	I	M	S	R	39	78.0	9.29	22600	34.67	289.7
40-015	NORTHERN HOG SUCKER	I	M	S	R	11	22.0	2.62	4000	6.14	181.8
40-023	SMALLMOUTH REDHORSE	I	M	S	R	4	8.0	0.95	2240	3.44	280.0
43-001	COMMON CARP	O	T	M	G	1	2.0	0.24	5400	8.28	2700.0
43-020	EMERALD SHINER	I		M	N	178	356.0	42.38	342	0.52	0.9
43-035	MIMIC SHINER	I	I	M	N	30	60.0	7.14	26	0.04	0.4
43-043	BLUNTNOSE MINNOW	O	T	C	N	8	16.0	1.90	14	0.02	0.8
47-007	FLATHEAD CATFISH	P		C	F	2	4.0	0.48	8300	12.73	2075.0
70-001	BROOK SILVERSIDE	I	M	M		1	2.0	0.24	2	0.00	1.0
74-001	WHITE BASS	P		M	F	5	10.0	1.19	600	0.92	60.0
77-001	WHITE CRAPPIE	I		C	S	1	2.0	0.24	300	0.46	150.0
77-004	SMALLMOUTH BASS	C	M	C	F	8	16.0	1.90	1570	2.41	98.1
77-005	SPOTTED BASS	C		C	F	5	10.0	1.19	140	0.21	14.0
77-009	BLUEGILL SUNFISH	I	P	C	S	13	26.0	3.10	180	0.28	6.9
77-011	LONGEAR SUNFISH	I	M	C	S	33	66.0	7.86	336	0.52	5.0
85-001	FRESHWATER DRUM		P	M		2	4.0	0.48	800	1.23	200.0

**No Species:** 20      **Nat. Species:** 19      **Hybrids:** 0      **Total Counted:** 420      **Total Rel. Wt. :** 65190

**IBI:** 36.0      **MIwb:** 9.4

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM02 River: 11-001 Little Miami River RM: 23.70 Date: 07/17/2012

Time Fished: 1763 Distance: 0.500 Drainge (sq mi): 1150.0 Depth: 0

Location: Dst. E. Loveland Ave. Lat: 39.26803 Long: -84.26095

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	2.0	0.60	1000	1.42	500.0
20-003	GIZZARD SHAD	O		M		25	50.0	14.88	10180	14.42	203.6
40-004	SMALLMOUTH BUFFALO	I		M	C	4	8.0	2.38	12100	17.14	1512.5
40-005	QUILLBACK CARPSUCKER	O		M	C	1	2.0	0.60	1000	1.42	500.0
40-006	RIVER CARPSUCKER	O		M	C	2	4.0	1.19	3600	5.10	900.0
40-008	SILVER REDHORSE	I	M	S	R	2	4.0	1.19	8400	11.90	2100.0
40-010	GOLDEN REDHORSE	I	M	S	R	18	36.0	10.71	12380	17.53	343.8
40-015	NORTHERN HOG SUCKER	I	M	S	R	2	4.0	1.19	500	0.71	125.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	6	12.0	3.57	4000	5.67	333.3
43-020	EMERALD SHINER	I		M	N	21	42.0	12.50	48	0.07	1.1
43-032	SPOTFIN SHINER	I		M	N	4	8.0	2.38	20	0.03	2.5
43-034	SAND SHINER	I	M	M	N	2	4.0	1.19	6	0.01	1.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	15	30.0	8.93	28	0.04	0.9
47-002	CHANNEL CATFISH			C	F	3	6.0	1.79	7140	10.11	1190.0
47-008	STONECAT MADTOM	I	I	C		1	2.0	0.60	10	0.01	5.0
77-004	SMALLMOUTH BASS	C	M	C	F	7	14.0	4.17	3770	5.34	269.2
77-005	SPOTTED BASS	C		C	F	7	14.0	4.17	340	0.48	24.2
77-008	GREEN SUNFISH	I	T	C	S	6	12.0	3.57	240	0.34	20.0
77-009	BLUEGILL SUNFISH	I	P	C	S	19	38.0	11.31	470	0.67	12.3
77-011	LONGEAR SUNFISH	I	M	C	S	5	10.0	2.98	160	0.23	16.0
80-001	SAUGER	P		S	F	1	2.0	0.60	1100	1.56	550.0
80-007	SLENDERHEAD DARTER	I	R	S	D	4	8.0	2.38	8	0.01	1.0
80-011	LOGPERCH	I	M	S	D	3	6.0	1.79	120	0.17	20.0
80-015	GREENSIDE DARTER	I	M	S	D	1	2.0	0.60	4	0.01	2.0
85-001	FRESHWATER DRUM		P	M		8	16.0	4.76	3980	5.64	248.7

**No Species:** 25    **Nat. Species:** 25    **Hybrids:** 0    **Total Counted:** 168    **Total Rel. Wt. :** 70604

**IBI:** 44.0    **MIwb:** 10.1

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM02 River: 11-001 Little Miami River RM: 23.70 Date: 09/13/2012  
 Time Fished: 1829 Distance: 0.500 Drainge (sq mi): 1150.0 Depth: 0  
 Location: Dst. E. Loveland Ave. Lat: 39.26803 Long: -84.26095

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		124	248.0	25.31	9910	10.69	39.9
40-004	SMALLMOUTH BUFFALO	I		M	C	2	4.0	0.41	5800	6.25	1450.0
40-006	RIVER CARPSUCKER	O		M	C	2	4.0	0.41	4000	4.31	1000.0
40-009	BLACK REDHORSE	I	I	S	R	1	2.0	0.20	500	0.54	250.0
40-010	GOLDEN REDHORSE	I	M	S	R	27	54.0	5.51	21080	22.73	390.3
40-015	NORTHERN HOG SUCKER	I	M	S	R	4	8.0	0.82	2100	2.26	262.5
40-023	SMALLMOUTH REDHORSE	I	M	S	R	16	32.0	3.27	11300	12.18	353.1
43-020	EMERALD SHINER	I		M	N	201	402.0	41.02	292	0.31	0.7
43-032	SPOTFIN SHINER	I		M	N	5	10.0	1.02	12	0.01	1.2
43-035	MIMIC SHINER	I	I	M	N	2	4.0	0.41	4	0.00	1.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	19	38.0	3.88	70	0.08	1.8
47-002	CHANNEL CATFISH			C	F	2	4.0	0.41	6208	6.69	1552.0
47-007	FLATHEAD CATFISH	P		C	F	6	12.0	1.22	11500	12.40	958.3
77-003	ROCK BASS	C		C	S	1	2.0	0.20	60	0.06	30.0
77-004	SMALLMOUTH BASS	C	M	C	F	15	30.0	3.06	2590	2.79	86.3
77-005	SPOTTED BASS	C		C	F	10	20.0	2.04	3940	4.25	197.0
77-008	GREEN SUNFISH	I	T	C	S	4	8.0	0.82	200	0.22	25.0
77-009	BLUEGILL SUNFISH	I	P	C	S	7	14.0	1.43	182	0.20	13.0
77-011	LONGEAR SUNFISH	I	M	C	S	33	66.0	6.73	522	0.56	7.9
80-001	SAUGER	P		S	F	3	6.0	0.61	2020	2.18	336.6
80-011	LOGPERCH	I	M	S	D	1	2.0	0.20	54	0.06	27.0
85-001	FRESHWATER DRUM		P	M		5	10.0	1.02	10400	11.21	1040.0

**No Species:** 22    **Nat. Species:** 22    **Hybrids:** 0    **Total Counted:** 490    **Total Rel. Wt. :** 92744

**IBI:** 42.0    **MIwb:** 10.0

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM01 River: 11-001 Little Miami River RM: 27.80 Date: 07/23/2012

Time Fished: 1411 Distance: 0.300 Drainge (sq mi): 1070.0 Depth: 0

Location: Dst. Old 3C highway Lat: 39.31636 Long: -84.25214

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		2	6.7	0.89	2999	1.84	450.0
20-003	GIZZARD SHAD	O		M		27	90.0	12.05	16165	9.94	179.6
40-004	SMALLMOUTH BUFFALO	I		M	C	5	16.7	2.23	26330	16.19	1580.0
40-006	RIVER CARPSUCKER	O		M	C	1	3.3	0.45	3666	2.25	1100.0
40-010	GOLDEN REDHORSE	I	M	S	R	28	93.3	12.50	42962	26.42	460.3
40-015	NORTHERN HOG SUCKER	I	M	S	R	9	30.0	4.02	4476	2.75	149.2
40-023	SMALLMOUTH REDHORSE	I	M	S	R	17	56.7	7.59	24030	14.78	424.1
43-020	EMERALD SHINER	I		M	N	54	180.0	24.11	106	0.07	0.5
43-031	STEELCOLOR SHINER	I	P	M	N	6	20.0	2.68	216	0.13	10.8
43-032	SPOTFIN SHINER	I		M	N	1	3.3	0.45	10	0.01	3.0
43-034	SAND SHINER	I	M	M	N	11	36.7	4.91	43	0.03	1.1
43-035	MIMIC SHINER	I	I	M	N	4	13.3	1.79	16	0.01	1.2
43-043	BLUNTNOSE MINNOW	O	T	C	N	9	30.0	4.02	73	0.05	2.4
47-002	CHANNEL CATFISH			C	F	3	10.0	1.34	12532	7.71	1253.3
74-001	WHITE BASS	P		M	F	1	3.3	0.45	1166	0.72	350.0
77-004	SMALLMOUTH BASS	C	M	C	F	16	53.3	7.14	6799	4.18	127.5
77-008	GREEN SUNFISH	I	T	C	S	1	3.3	0.45	33	0.02	10.0
77-009	BLUEGILL SUNFISH	I	P	C	S	6	20.0	2.68	433	0.27	21.6
77-011	LONGEAR SUNFISH	I	M	C	S	10	33.3	4.46	766	0.47	23.0
80-001	SAUGER	P		S	F	1	3.3	0.45	1333	0.82	400.0
80-011	LOGPERCH	I	M	S	D	2	6.7	0.89	199	0.12	30.0
80-026	SAUGER X WALLEYE	P			E	1	3.3	0.45	999	0.61	300.0
85-001	FRESHWATER DRUM		P	M		9	30.0	4.02	17264	10.62	575.5

**No Species:** 22    **Nat. Species:** 22    **Hybrids:** 1    **Total Counted:** 224    **Total Rel. Wt. :** 162627

**IBI:** 44.0    **MIwb:** 10.5

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM01 River: 11-001 Little Miami River RM: 27.80 Date: 09/12/2012

Time Fished: 1000 Distance: 0.300 Drainge (sq mi): 1070.0 Depth: 0

Location: Dst. Old 3C highway Lat: 39.31636 Long: -84.25214

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		2	6.7	0.79	5666	1.76	850.0
20-003	GIZZARD SHAD	O		M		49	163.3	19.29	17298	5.39	105.9
40-004	SMALLMOUTH BUFFALO	I		M	C	4	13.3	1.57	18998	5.92	1425.0
40-006	RIVER CARPSUCKER	O		M	C	4	13.3	1.57	15665	4.88	1175.0
40-008	SILVER REDHORSE	I	M	S	R	4	13.3	1.57	23997	7.47	1800.0
40-010	GOLDEN REDHORSE	I	M	S	R	34	113.3	13.39	63193	19.68	557.6
40-015	NORTHERN HOG SUCKER	I	M	S	R	10	33.3	3.94	7065	2.20	212.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	24	80.0	9.45	30996	9.65	387.5
43-020	EMERALD SHINER	I		M	N	52	173.3	20.47	186	0.06	1.0
43-031	STEELCOLOR SHINER	I	P	M	N	1	3.3	0.39	36	0.01	11.0
43-032	SPOTFIN SHINER	I		M	N	2	6.7	0.79	23	0.01	3.5
43-035	MIMIC SHINER	I	I	M	N	4	13.3	1.57	10	0.00	0.7
43-041	BULLHEAD MINNOW	O		C	N	1	3.3	0.39	10	0.00	3.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	2	6.7	0.79	10	0.00	1.5
43-044	CENTRAL STONEROLLER	H		N	N	9	30.0	3.54	166	0.05	5.5
47-002	CHANNEL CATFISH			C	F	3	10.0	1.18	17331	5.40	1733.3
47-007	FLATHEAD CATFISH	P		C	F	1	3.3	0.39	16	0.01	5.0
74-001	WHITE BASS	P		M	F	3	10.0	1.18	533	0.17	53.3
77-004	SMALLMOUTH BASS	C	M	C	F	13	43.3	5.12	6399	1.99	147.6
77-011	LONGEAR SUNFISH	I	M	C	S	3	10.0	1.18	233	0.07	23.3
80-011	LOGPERCH	I	M	S	D	1	3.3	0.39	33	0.01	10.0
85-001	FRESHWATER DRUM		P	M		28	93.3	11.02	113288	35.27	1213.9

**No Species:** 22    **Nat. Species:** 22    **Hybrids:** 0    **Total Counted:** 254    **Total Rel. Wt. :** 321161

**IBI:** 40.0    **MIwb:** 10.6



# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM98 River: 11-002 Clough Creek RM: 0.60 Date: 08/30/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 7.8 Depth: 0  
 Location: at Elstun Rd and Beechmont Ave. Lat: 39.10581 Long: -84.39481

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	171	342.0	45.00	580	39.35	1.7
43-013	CREEK CHUB	G	T	N	N	26	52.0	6.84	200	13.57	3.8
43-039	SILVERJAW MINNOW	I		M	N	21	42.0	5.53	22	1.49	0.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	76	152.0	20.00	200	13.57	1.3
43-044	CENTRAL STONEROLLER	H		N	N	47	94.0	12.37	380	25.78	4.0
47-004	YELLOW BULLHEAD	I	T	C		1	2.0	0.26	12	0.81	6.0
80-022	RAINBOW DARTER	I	M	S	D	38	76.0	10.00	80	5.43	1.0

**No Species:** 7      **Nat. Species:** 7      **Hybrids:** 0      **Total Counted:** 380      **Total Rel. Wt. :** 1474

**IBI:** 26.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM97 River: 11-002 Clough Creek RM: 1.20 Date: 08/30/2012  
 Time Fished: 1781 Distance: 0.150 Drainge (sq mi): 7.5 Depth: 0  
 Location: behind maple farm off Clough Pike Lat: 39.10955 Long: -84.38788

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	17	34.0	1.80	1620	15.31	47.6
43-001	COMMON CARP	O	T	M	G	2	4.0	0.21	1450	13.71	362.5
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	100	200.0	10.56	540	5.10	2.7
43-013	CREEK CHUB	G	T	N	N	103	206.0	10.88	1580	14.93	7.6
43-025	STRIPED SHINER	I		S	N	1	2.0	0.11	60	0.57	30.0
43-039	SILVERJAW MINNOW	I		M	N	71	142.0	7.50	240	2.27	1.6
43-043	BLUNTNOSE MINNOW	O	T	C	N	426	852.0	44.98	1960	18.53	2.3
43-044	CENTRAL STONEROLLER	H		N	N	129	258.0	13.62	1880	17.77	7.2
47-004	YELLOW BULLHEAD	I	T	C		34	68.0	3.59	500	4.73	7.3
77-008	GREEN SUNFISH	I	T	C	S	15	30.0	1.58	570	5.39	19.0
80-022	RAINBOW DARTER	I	M	S	D	49	98.0	5.17	180	1.70	1.8

**No Species:** 11      **Nat. Species:** 10      **Hybrids:** 0      **Total Counted:** 947      **Total Rel. Wt. :** 10580

**IBI:** 26.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM96 River: 11-002 Clough Creek RM: 3.00 Date: 08/29/2012

Time Fished: 0 Distance: 0.150 Drainge (sq mi): 5.4 Depth: 0

Location: Ust. Berkshire Rd. bridge Lat: 39.09399 Long: -84.36633

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	1	2.0	0.13	8	0.17	4.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	269	538.0	35.77	970	20.07	1.8
43-013	CREEK CHUB	G	T	N	N	200	400.0	26.60	2280	47.19	5.7
43-039	SILVERJAW MINNOW	I		M	N	80	160.0	10.64	320	6.62	2.0
43-042	FATHEAD MINNOW	O	T	C	N	1	2.0	0.13	4	0.08	2.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	78	156.0	10.37	420	8.69	2.6
43-044	CENTRAL STONEROLLER	H		N	N	114	228.0	15.16	730	15.11	3.2
47-004	YELLOW BULLHEAD	I	T	C		1	2.0	0.13	60	1.24	30.0
80-022	RAINBOW DARTER	I	M	S	D	8	16.0	1.06	40	0.83	2.5

**No Species:** 9      **Nat. Species:** 9      **Hybrids:** 0      **Total Counted:** 752      **Total Rel. Wt. :** 4832

**IBI:** 36.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM95 River: 11-002 Clough Creek RM: 3.20 Date: 08/29/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 2.1 Depth: 0  
 Location: Lat: 39.09360 Long: -84.36500

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	93	186.0	39.41	560	39.66	3.0
43-013	CREEK CHUB	G	T	N	N	93	186.0	39.41	740	52.41	3.9
43-043	BLUNTNOSE MINNOW	O	T	C	N	1	2.0	0.42	6	0.42	3.0
43-044	CENTRAL STONEROLLER	H		N	N	47	94.0	19.92	100	7.08	1.0
80-022	RAINBOW DARTER	I	M	S	D	2	4.0	0.85	6	0.42	1.5
<b>No Species: 5</b>		<b>Nat. Species: 5</b>		<b>Hybrids: 0</b>		<b>Total Counted: 236</b>		<b>Total Rel. Wt. :</b>		<b>1412</b>	
<b>IBI: 30.0</b>		<b>MIwb: N/A</b>									

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM99    River: 11-002    Clough Creek    RM: 4.60    Date: 08/30/2012

Time Fished: 0    Distance: 0.150    Drainge (sq mi): 0.9    Depth: 0

Location: at Wolfangle Rd.    Lat: 39.08435    Long: -84.08518

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	34	68.0	36.17	100	18.52	1.4
43-013	CREEK CHUB	G	T	N	N	60	120.0	63.83	440	81.48	3.6

**No Species:** 2    **Nat. Species:** 2    **Hybrids:** 0    **Total Counted:** 94    **Total Rel. Wt. :** 540

**IBI:** 20.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM94 River: 11-003 McCullough Run RM: 1.30 Date: 08/28/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 1.7 Depth: 0  
 Location: at US32 across from sod farm and soccer field Lat: 39.12098 Long: -84.38039

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	2	4.0	0.99	20	0.64	5.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	6	12.0	2.97	16	0.51	1.3
43-013	CREEK CHUB	G	T	N	N	112	224.0	55.45	2540	81.20	11.3
43-020	EMERALD SHINER	I		M	N	4	8.0	1.98	6	0.19	0.7
43-039	SILVERJAW MINNOW	I		M	N	1	2.0	0.50	4	0.13	2.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	35	70.0	17.33	80	2.56	1.1
43-044	CENTRAL STONEROLLER	H		N	N	17	34.0	8.42	160	5.12	4.7
47-004	YELLOW BULLHEAD	I	T	C		2	4.0	0.99	80	2.56	20.0
77-008	GREEN SUNFISH	I	T	C	S	11	22.0	5.45	140	4.48	6.3
77-009	BLUEGILL SUNFISH	I	P	C	S	2	4.0	0.99	22	0.70	5.5
80-022	RAINBOW DARTER	I	M	S	D	7	14.0	3.47	20	0.64	1.4
85-001	FRESHWATER DRUM		P	M		3	6.0	1.49	40	1.28	6.6

**No Species:** 12    **Nat. Species:** 12    **Hybrids:** 0    **Total Counted:** 202    **Total Rel. Wt. :** 3128  
**IBI:** 34.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM79 River: 11-004 Duck Creek RM: 0.90 Date: 08/15/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 14.7 Depth: 0  
 Location: Lat: 39.12220 Long: -84.41110

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 1      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 0      **Total Rel. Wt. :** 0  
**IBI:** -9.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM77 River: 11-004 Duck Creek RM: 1.80 Date: 08/15/2012

Time Fished: 0 Distance: 0.150 Drainge (sq mi): 14.3 Depth: 0

Location: at Power St. Lat: 39.13257 Long: -84.40484

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	130	260.0	18.73	180	8.94	0.6
43-013	CREEK CHUB	G	T	N	N	178	356.0	25.65	960	47.67	2.7
43-020	EMERALD SHINER	I		M	N	244	488.0	35.16	340	16.88	0.7
43-032	SPOTFIN SHINER	I		M	N	4	8.0	0.58	6	0.30	0.7
43-039	SILVERJAW MINNOW	I		M	N	1	2.0	0.14	6	0.30	3.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	51	102.0	7.35	120	5.96	1.1
43-044	CENTRAL STONEROLLER	H		N	N	48	96.0	6.92	160	7.94	1.6
47-004	YELLOW BULLHEAD	I	T	C		2	4.0	0.29	10	0.50	2.5
57-001	WESTERN MOSQUITOFISH	I		N	E	5	10.0	0.72	12	0.60	1.2
77-008	GREEN SUNFISH	I	T	C	S	31	62.0	4.47	220	10.92	3.5

**No Species:** 10    **Nat. Species:** 9    **Hybrids:** 0    **Total Counted:** 694    **Total Rel. Wt. :** 2014

**IBI:** 32.0    **MIwb:** N/A



# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: River: 11-004 Duck Creek RM: 2.70 Date: 08/29/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 0.0 Depth: 0  
 Location: Lat: 0.00000 Long: 0.00000

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 0      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 0      **Total Rel. Wt. :** 0  
**IBI:** 0.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM76 River: 11-004 Duck Creek RM: 2.90 Date: 08/15/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 11.8 Depth: 0  
 Location: adj. Red Bank Rd. Lat: 39.14457 Long: -84.40589

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	31	62.0	24.22	200	42.74	3.2
43-020	EMERALD SHINER	I		M	N	90	180.0	70.31	180	38.46	1.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	2	4.0	1.56	8	1.71	2.0
77-008	GREEN SUNFISH	I	T	C	S	5	10.0	3.91	80	17.09	8.0

**No Species:** 4      **Nat. Species:** 4      **Hybrids:** 0      **Total Counted:** 128      **Total Rel. Wt. :** 468  
**IBI:** 32.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM75    River: 11-004    Duck Creek    RM: 3.30    Date: 08/07/2012  
 Time Fished: 0    Distance: 0.150    Drainge (sq mi): 11.4    Depth: 0  
 Location: at Erie Ave.    Lat: 39.14945    Long: -84.40827

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-999	NO FISH					0	0.0	***.**	0	0.00	*****

**No Species:** 0    **Nat. Species:** 1    **Hybrids:** 0    **Total Counted:** 0    **Total Rel. Wt. :** 0  
**IBI:** 12.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM73    River: 11-004    Duck Creek    RM: 4.40    Date: 08/07/2012  
 Time Fished: 0    Distance: 0.150    Drainge (sq mi): 5.8    Depth: 0  
 Location: Ust. Madison Rd.    Lat: 39.16018    Long: -84.41657

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
77-008	GREEN SUNFISH	I	T	C	S	1	2.0	100.00	4	100.00	2.0

**No Species:** 1    **Nat. Species:** 1    **Hybrids:** 0    **Total Counted:** 1    **Total Rel. Wt. :** 4  
**IBI:** 12.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM72 River: 11-004 Duck Creek RM: 4.60 Date: 08/07/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 5.1 Depth: 0  
 Location: Dst. Duck Creek Rd. Lat: 39.16415 Long: -84.41682

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-013	CREEK CHUB	G	T	N	N	3	6.0	2.00	20	2.79	3.3
43-043	BLUNTNOSE MINNOW	O	T	C	N	1	2.0	0.67	6	0.84	3.0
43-044	CENTRAL STONEROLLER	H		N	N	4	8.0	2.67	40	5.59	5.0
77-008	GREEN SUNFISH	I	T	C	S	142	284.0	94.67	650	90.78	2.2
<b>No Species:</b> 4		<b>Nat. Species:</b> 4		<b>Hybrids:</b> 0		<b>Total Counted:</b> 150		<b>Total Rel. Wt. :</b>		716	
<b>IBI:</b> 26.0		<b>MIwb:</b> N/A									

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM78    River: 11-004    Duck Creek    RM: 5.20    Date: 08/15/2012

Time Fished: 0    Distance: 0.150    Drainage (sq mi): 3.5    Depth: 0

Location: adj. 562 and I-71    Lat: 39.16550    Long: -84.42493

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-999	NO FISH					1	2.0	100.00	2	100.00	1.0

**No Species:** 0    **Nat. Species:** 1    **Hybrids:** 0    **Total Counted:** 1    **Total Rel. Wt. :** 2

**IBI:** 12.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM71 River: 11-004 Duck Creek RM: 6.00 Date: 08/30/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 2.2 Depth: 0  
 Location: at Duck Creek Rd. (upstream) Lat: 39.16171 Long: -84.43745

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-999	NO FISH					0	0.0	***.**	0	0.00	*****

**No Species:** 0      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 0      **Total Rel. Wt. :** 0  
**IBI:** 12.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM68 River: 11-005 Dry Run RM: 0.60 Date: 08/02/2012  
 Time Fished: 0 Distance: 0.000 Drainge (sq mi): 5.4 Depth: 0  
 Location: DRY RUN NR NEWTOWN - NEWTOWN RD. Lat: 39.13556 Long: 84.35389

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 1      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 0      **Total Rel. Wt. :** 0  
**IBI:** -9.0      **MIwb:** N/A



# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM67 River: 11-005 Dry Run RM: 2.50 Date: 08/28/2012  
 Time Fished: 2477 Distance: 0.150 Drainge (sq mi): 4.7 Depth: 0  
 Location: Dst. Batavia Pike Lat: 39.12376 Long: -84.32921

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	17	34.0	1.32	1980	17.79	58.2
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	279	558.0	21.66	1170	10.51	2.1
43-013	CREEK CHUB	G	T	N	N	180	360.0	13.98	2410	21.65	6.6
43-020	EMERALD SHINER	I		M	N	1	2.0	0.08	4	0.04	2.0
43-025	STRIPED SHINER	I		S	N	1	2.0	0.08	16	0.14	8.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	104	208.0	8.07	310	2.79	1.4
43-044	CENTRAL STONEROLLER	H		N	N	628	1256.0	48.76	4520	40.61	3.6
77-008	GREEN SUNFISH	I	T	C	S	10	20.0	0.78	600	5.39	30.0
80-016	BANDED DARTER	I	I	S	D	41	82.0	3.18	64	0.58	0.7
80-022	RAINBOW DARTER	I	M	S	D	27	54.0	2.10	56	0.50	1.0

**No Species:** 10    **Nat. Species:** 10    **Hybrids:** 0    **Total Counted:** 1288    **Total Rel. Wt. :** 11130  
**IBI:** 44.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM66 River: 11-005 Dry Run RM: 4.10 Date: 08/29/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 3.2 Depth: 0  
 Location: Ust. 8 Mile Rd. Lat: 39.10589 Long: -84.31874

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	41	82.0	28.28	220	13.25	2.6
43-013	CREEK CHUB	G	T	N	N	41	82.0	28.28	740	44.58	9.0
43-044	CENTRAL STONEROLLER	H		N	N	62	124.0	42.76	660	39.76	5.3
77-006	LARGEMOUTH BASS	C		C	F	1	2.0	0.69	40	2.41	20.0

**No Species:** 4      **Nat. Species:** 4      **Hybrids:** 0      **Total Counted:** 145      **Total Rel. Wt. :** 1660  
**IBI:** 30.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM70 River: 11-005 Dry Run RM: 5.60 Date: 08/29/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 0.8 Depth: 0  
 Location: Ust. Clough Pike Lat: 39.08808 Long: -84.30908

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-013	CREEK CHUB	G	T	N	N	145	290.0	100.00	1940	100.00	6.6
<b>No Species:</b> 1		<b>Nat. Species:</b> 1		<b>Hybrids:</b> 0		<b>Total Counted:</b> 145		<b>Total Rel. Wt. :</b>		1940	
<b>IBI:</b> 20.0		<b>MIwb:</b> N/A									

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM52 River: 11-007 Sycamore Creek RM: 0.20 Date: 07/30/2012  
 Time Fished: 1728 Distance: 0.200 Drainge (sq mi): 24.0 Depth: 0  
 Location: SYCAMORE CREEK DST SYCAMORE CREEK WWTP Lat: 39.22583 Long: 84.32250

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-009	BLACK REDHORSE	I	I	S	R	1	1.5	0.42	675	6.63	450.0
40-010	GOLDEN REDHORSE	I	M	S	R	3	4.5	1.26	2025	19.90	450.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	6	9.0	2.51	2400	23.58	266.6
43-020	EMERALD SHINER	I		M	N	95	142.5	39.75	94	0.93	0.6
43-031	STEELCOLOR SHINER	I	P	M	N	2	3.0	0.84	12	0.12	4.0
43-032	SPOTFIN SHINER	I		M	N	4	6.0	1.67	7	0.07	1.2
43-034	SAND SHINER	I	M	M	N	16	24.0	6.69	36	0.35	1.5
43-035	MIMIC SHINER	I	I	M	N	11	16.5	4.60	25	0.25	1.5
43-044	CENTRAL STONEROLLER	H		N	N	12	18.0	5.02	112	1.11	6.2
47-004	YELLOW BULLHEAD	I	T	C		1	1.5	0.42	1	0.01	1.0
77-003	ROCK BASS	C		C	S	1	1.5	0.42	75	0.74	50.0
77-004	SMALLMOUTH BASS	C	M	C	F	8	12.0	3.35	2632	25.87	219.3
77-005	SPOTTED BASS	C		C	F	7	10.5	2.93	757	7.44	72.1
77-008	GREEN SUNFISH	I	T	C	S	12	18.0	5.02	376	3.70	20.9
77-009	BLUEGILL SUNFISH	I	P	C	S	20	30.0	8.37	607	5.97	20.2
77-011	LONGEAR SUNFISH	I	M	C	S	4	6.0	1.67	151	1.49	25.2
80-015	GREENSIDE DARTER	I	M	S	D	1	1.5	0.42	75	0.74	50.0
80-022	RAINBOW DARTER	I	M	S	D	33	49.5	13.81	105	1.03	2.1
80-024	FANTAIL DARTER	I		C	D	2	3.0	0.84	7	0.07	2.5

**No Species:** 19    **Nat. Species:** 19    **Hybrids:** 0    **Total Counted:** 239    **Total Rel. Wt. :** 10177  
**IBI:** 52.0    **MIwb:** 8.2

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM52 River: 11-007 Sycamore Creek RM: 0.20 Date: 09/25/2012

Time Fished: 0 Distance: 0.200 Drainge (sq mi): 24.0 Depth: 0

Location: SYCAMORE CREEK DST SYCAMORE CREEK WWTP Lat: 39.22583 Long: 84.32250

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-010	GOLDEN REDHORSE	I	M	S	R	1	1.5	0.46	1200	15.96	800.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	4	6.0	1.83	1245	16.55	207.5
43-020	EMERALD SHINER	I		M	N	5	7.5	2.28	12	0.16	1.6
43-022	ROSYFACE SHINER	I	I	S	N	1	1.5	0.46	3	0.04	2.0
43-025	STRIPED SHINER	I		S	N	1	1.5	0.46	12	0.16	8.0
43-031	STEELCOLOR SHINER	I	P	M	N	13	19.5	5.94	91	1.22	4.6
43-032	SPOTFIN SHINER	I		M	N	4	6.0	1.83	25	0.34	4.2
43-043	BLUNTNOSE MINNOW	O	T	C	N	1	1.5	0.46	3	0.04	2.0
43-044	CENTRAL STONEROLLER	H		N	N	17	25.5	7.76	240	3.19	9.4
47-004	YELLOW BULLHEAD	I	T	C		1	1.5	0.46	7	0.10	5.0
77-003	ROCK BASS	C		C	S	2	3.0	0.91	15	0.20	5.0
77-004	SMALLMOUTH BASS	C	M	C	F	23	34.5	10.50	3705	49.26	107.3
77-008	GREEN SUNFISH	I	T	C	S	8	12.0	3.65	105	1.40	8.7
77-009	BLUEGILL SUNFISH	I	P	C	S	7	10.5	3.20	15	0.20	1.4
77-011	LONGEAR SUNFISH	I	M	C	S	97	145.5	44.29	712	9.47	4.9
80-015	GREENSIDE DARTER	I	M	S	D	10	15.0	4.57	60	0.80	4.0
80-016	BANDED DARTER	I	I	S	D	2	3.0	0.91	3	0.04	1.0
80-022	RAINBOW DARTER	I	M	S	D	17	25.5	7.76	60	0.80	2.3
80-024	FANTAIL DARTER	I		C	D	5	7.5	2.28	6	0.08	0.8

**No Species:** 19    **Nat. Species:** 19    **Hybrids:** 0    **Total Counted:** 219    **Total Rel. Wt. :** 7521  
**IBI:** 50.0    **MIwb:** 7.5

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM51    River: 11-007    Sycamore Creek    RM: 0.50    Date: 07/30/2012

Time Fished: 0    Distance: 0.200    Drainge (sq mi): 24.0    Depth: 0

Location:    Lat: 39.22330    Long: -84.32640

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-015	NORTHERN HOG SUCKER	I	M	S	R	4	6.0	2.03	465	13.61	77.5
43-020	EMERALD SHINER	I		M	N	24	36.0	12.18	19	0.57	0.5
43-025	STRIPED SHINER	I		S	N	1	1.5	0.51	1	0.04	1.0
43-032	SPOTFIN SHINER	I		M	N	4	6.0	2.03	13	0.40	2.2
43-034	SAND SHINER	I	M	M	N	21	31.5	10.66	42	1.23	1.3
43-035	MIMIC SHINER	I	I	M	N	6	9.0	3.05	12	0.35	1.3
43-043	BLUNTNOSE MINNOW	O	T	C	N	63	94.5	31.98	45	1.32	0.4
47-004	YELLOW BULLHEAD	I	T	C		6	9.0	3.05	1215	35.56	135.0
47-008	STONECAT MADTOM	I	I	C		1	1.5	0.51	4	0.13	3.0
70-001	BROOK SILVERSIDE	I	M	M		1	1.5	0.51	1	0.04	1.0
77-003	ROCK BASS	C		C	S	1	1.5	0.51	30	0.88	20.0
77-004	SMALLMOUTH BASS	C	M	C	F	4	6.0	2.03	622	18.22	103.7
77-008	GREEN SUNFISH	I	T	C	S	17	25.5	8.63	465	13.61	18.2
77-009	BLUEGILL SUNFISH	I	P	C	S	17	25.5	8.63	166	4.87	6.5
77-011	LONGEAR SUNFISH	I	M	C	S	18	27.0	9.14	273	7.99	10.1
77-021	GREEN SF X LONGEAR SF					1	1.5	0.51	22	0.66	15.0
80-015	GREENSIDE DARTER	I	M	S	D	1	1.5	0.51	6	0.18	4.0
80-022	RAINBOW DARTER	I	M	S	D	6	9.0	3.05	10	0.31	1.1
80-024	FANTAIL DARTER	I		C	D	1	1.5	0.51	1	0.04	1.0

**No Species:** 18    **Nat. Species:** 18    **Hybrids:** 1    **Total Counted:** 197    **Total Rel. Wt. :** 3417

**IBI:** 38.0    **MIwb:** 6.9

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM51 River: 11-007 Sycamore Creek RM: 0.50 Date: 09/25/2012

Time Fished: 0 Distance: 0.200 Drainge (sq mi): 24.0 Depth: 0

Location: Lat: 39.22330 Long: -84.32640

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-015	NORTHERN HOG SUCKER	I	M	S	R	3	4.5	1.35	465	9.24	103.3
40-016	WHITE SUCKER	O	T	S	W	1	1.5	0.45	255	5.07	170.0
43-025	STRIPED SHINER	I		S	N	1	1.5	0.45	4	0.09	3.0
43-031	STEELCOLOR SHINER	I	P	M	N	9	13.5	4.05	16	0.33	1.2
43-032	SPOTFIN SHINER	I		M	N	26	39.0	11.71	42	0.83	1.0
43-034	SAND SHINER	I	M	M	N	2	3.0	0.90	3	0.06	1.0
43-035	MIMIC SHINER	I	I	M	N	6	9.0	2.70	13	0.27	1.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	13	19.5	5.86	55	1.10	2.8
43-044	CENTRAL STONEROLLER	H		N	N	5	7.5	2.25	90	1.79	12.0
47-004	YELLOW BULLHEAD	I	T	C		9	13.5	4.05	1012	20.12	75.0
47-008	STONECAT MADTOM	I	I	C		1	1.5	0.45	60	1.19	40.0
77-003	ROCK BASS	C		C	S	3	4.5	1.35	240	4.77	53.3
77-004	SMALLMOUTH BASS	C	M	C	F	19	28.5	8.56	1320	26.23	46.3
77-008	GREEN SUNFISH	I	T	C	S	24	36.0	10.81	345	6.86	9.5
77-009	BLUEGILL SUNFISH	I	P	C	S	16	24.0	7.21	300	5.96	12.5
77-011	LONGEAR SUNFISH	I	M	C	S	77	115.5	34.68	795	15.80	6.8
80-015	GREENSIDE DARTER	I	M	S	D	1	1.5	0.45	3	0.06	2.0
80-022	RAINBOW DARTER	I	M	S	D	5	7.5	2.25	10	0.21	1.4
80-024	FANTAIL DARTER	I		C	D	1	1.5	0.45	1	0.03	1.0

**No Species:** 19    **Nat. Species:** 19    **Hybrids:** 0    **Total Counted:** 222    **Total Rel. Wt. :** 5032  
**IBI:** 46.0    **MIwb:** 7.7

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM50    River: 11-007    Sycamore Creek    RM: 0.70    Date: 08/06/2012

Time Fished: 2143    Distance: 0.150    Drainge (sq mi): 15.1    Depth: 0

Location:    Lat: 39.22220    Long: -84.32920

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-015	NORTHERN HOG SUCKER	I	M	S	R	2	4.0	0.61	320	4.09	80.0
40-016	WHITE SUCKER	O	T	S	W	23	46.0	7.01	3420	43.75	74.3
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	8	16.0	2.44	40	0.51	2.5
43-013	CREEK CHUB	G	T	N	N	53	106.0	16.16	1380	17.65	13.0
43-025	STRIPED SHINER	I		S	N	3	6.0	0.91	140	1.79	23.3
43-043	BLUNTNOSE MINNOW	O	T	C	N	112	224.0	34.15	380	4.86	1.7
43-044	CENTRAL STONEROLLER	H		N	N	120	240.0	36.59	1920	24.56	8.0
77-003	ROCK BASS	C		C	S	1	2.0	0.30	2	0.03	1.0
77-006	LARGEMOUTH BASS	C		C	F	1	2.0	0.30	200	2.56	100.0
77-011	LONGEAR SUNFISH	I	M	C	S	1	2.0	0.30	6	0.08	3.0
80-024	FANTAIL DARTER	I		C	D	4	8.0	1.22	10	0.13	1.2

**No Species:** 11    **Nat. Species:** 11    **Hybrids:** 0    **Total Counted:** 328    **Total Rel. Wt. :** 7818

**IBI:** 28.0    **MIwb:** N/A



# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM49    River: 11-007    Sycamore Creek    RM: 1.60    Date: 08/22/2012  
 Time Fished: 1324    Distance: 0.150    Drainge (sq mi): 6.6    Depth: 0  
 Location: adj. Loveland Maderia Rd @ pull-off by trib    Lat: 39.21156    Long: -84.33441

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	11	22.0	3.18	2600	40.24	118.1
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	112	224.0	32.37	590	9.13	2.6
43-013	CREEK CHUB	G	T	N	N	118	236.0	34.10	2640	40.85	11.1
43-043	BLUNTNOSE MINNOW	O	T	C	N	6	12.0	1.73	12	0.19	1.0
43-044	CENTRAL STONEROLLER	H		N	N	99	198.0	28.61	620	9.59	3.1
<b>No Species: 5</b>		<b>Nat. Species: 5</b>		<b>Hybrids: 0</b>		<b>Total Counted: 346</b>		<b>Total Rel. Wt. :</b>		<b>6462</b>	
<b>IBI: 24.0</b>		<b>MIwb: N/A</b>									

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM48 River: 11-007 Sycamore Creek RM: 2.40 Date: 08/22/2012

Time Fished: 0 Distance: 0.150 Drainge (sq mi): 4.8 Depth: 0

Location: Ust. Kugler Mills Rd off Loveland Maderia Rd. Lat: 39.20004 Long: -84.34042

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	136	272.0	24.11	460	8.33	1.6
43-013	CREEK CHUB	G	T	N	N	297	594.0	52.66	3620	65.58	6.0
43-044	CENTRAL STONEROLLER	H		N	N	131	262.0	23.23	1440	26.09	5.5

**No Species:** 3      **Nat. Species:** 3      **Hybrids:** 0      **Total Counted:** 564      **Total Rel. Wt. :** 5520

**IBI:** 26.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM47 River: 11-007 Sycamore Creek RM: 3.50 Date: 08/21/2012  
 Time Fished: 2198 Distance: 0.150 Drainge (sq mi): 3.5 Depth: 0  
 Location: Dst. Camargo Rd. Lat: 39.18993 Long: -84.35534

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	1	2.0	0.11	50	0.48	25.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	301	602.0	31.85	1324	12.61	2.2
43-013	CREEK CHUB	G	T	N	N	512	1024.0	54.18	7784	74.15	7.6
43-044	CENTRAL STONEROLLER	H		N	N	131	262.0	13.86	1340	12.76	5.1

**No Species:** 4      **Nat. Species:** 4      **Hybrids:** 0      **Total Counted:** 945      **Total Rel. Wt. :** 10498  
**IBI:** 26.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM61 River: 11-008 North Branch Sycamore Creek RM: 0.10 Date: 08/23/2012

Time Fished: 1642 Distance: 0.150 Drainge (sq mi): 10.0 Depth: 0

Location: Ust. Loveland Maderia Rd. (confluence) Lat: 39.22296 Long: -84.32886

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-015	NORTHERN HOG SUCKER	I	M	S	R	4	8.0	0.44	100	1.71	12.5
40-016	WHITE SUCKER	O	T	S	W	8	16.0	0.88	590	10.06	36.8
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	29	58.0	3.21	140	2.39	2.4
43-013	CREEK CHUB	G	T	N	N	47	94.0	5.20	430	7.33	4.5
43-020	EMERALD SHINER	I		M	N	3	6.0	0.33	6	0.10	1.0
43-025	STRIPED SHINER	I		S	N	22	44.0	2.43	198	3.38	4.5
43-031	STEELCOLOR SHINER	I	P	M	N	3	6.0	0.33	6	0.10	1.0
43-032	SPOTFIN SHINER	I		M	N	7	14.0	0.77	28	0.48	2.0
43-034	SAND SHINER	I	M	M	N	26	52.0	2.88	34	0.58	0.6
43-035	MIMIC SHINER	I	I	M	N	343	686.0	37.94	392	6.68	0.5
43-039	SILVERJAW MINNOW	I		M	N	5	10.0	0.55	132	2.25	13.2
43-043	BLUNTNOSE MINNOW	O	T	C	N	193	386.0	21.35	504	8.59	1.3
43-044	CENTRAL STONEROLLER	H		N	N	97	194.0	10.73	906	15.45	4.6
47-004	YELLOW BULLHEAD	I	T	C		6	12.0	0.66	240	4.09	20.0
47-008	STONECAT MADTOM	I	I	C		1	2.0	0.11	12	0.20	6.0
77-003	ROCK BASS	C		C	S	4	8.0	0.44	610	10.40	76.2
77-004	SMALLMOUTH BASS	C	M	C	F	6	12.0	0.66	164	2.80	13.6
77-006	LARGEMOUTH BASS	C		C	F	1	2.0	0.11	22	0.38	11.0
77-008	GREEN SUNFISH	I	T	C	S	22	44.0	2.43	780	13.30	17.7
77-009	BLUEGILL SUNFISH	I	P	C	S	19	38.0	2.10	222	3.79	5.8
77-011	LONGEAR SUNFISH	I	M	C	S	2	4.0	0.22	16	0.27	4.0
77-015	GREEN SF X BLUEGILL SF					2	4.0	0.22	160	2.73	40.0
80-015	GREENSIDE DARTER	I	M	S	D	5	10.0	0.55	32	0.55	3.2
80-022	RAINBOW DARTER	I	M	S	D	27	54.0	2.99	100	1.71	1.8
80-024	FANTAIL DARTER	I		C	D	22	44.0	2.43	40	0.68	0.9

**No Species:** 24    **Nat. Species:** 24    **Hybrids:** 1    **Total Counted:** 904    **Total Rel. Wt. :** 5864

**IBI:** 54.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM60 River: 11-008 North Branch Sycamore Creek RM: 0.50 Date: 08/27/2012  
 Time Fished: 2391 Distance: 0.150 Drainge (sq mi): 9.8 Depth: 0  
 Location: At SR 126 Lat: 39.22873 Long: -84.33315

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	24	48.0	0.92	1800	10.81	37.5
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	285	570.0	10.91	1430	8.59	2.5
43-013	CREEK CHUB	G	T	N	N	147	294.0	5.63	2404	14.44	8.1
43-039	SILVERJAW MINNOW	I		M	N	26	52.0	1.00	160	0.96	3.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	891	1782.0	34.10	1774	10.65	1.0
43-044	CENTRAL STONEROLLER	H		N	N	1008	2016.0	38.58	8460	50.80	4.2
77-008	GREEN SUNFISH	I	T	C	S	1	2.0	0.04	4	0.02	2.0
77-009	BLUEGILL SUNFISH	I	P	C	S	13	26.0	0.50	20	0.12	0.7
80-015	GREENSIDE DARTER	I	M	S	D	5	10.0	0.19	40	0.24	4.0
80-022	RAINBOW DARTER	I	M	S	D	1	2.0	0.04	12	0.07	6.0
80-024	FANTAIL DARTER	I		C	D	212	424.0	8.11	548	3.29	1.2

**No Species:** 11    **Nat. Species:** 11    **Hybrids:** 0    **Total Counted:** 2613    **Total Rel. Wt. :** 16652

**IBI:** 34.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM59 River: 11-008 North Branch Sycamore Creek RM: 2.10 Date: 08/23/2012

Time Fished: 2761 Distance: 0.150 Drainge (sq mi): 7.3 Depth: 0

Location: Dst. Hopewell Rd. Lat: 39.24434 Long: -84.32349

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	28	56.0	2.66	2500	23.43	44.6
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	24	48.0	2.28	100	0.94	2.0
43-013	CREEK CHUB	G	T	N	N	124	248.0	11.79	2610	24.46	10.5
43-039	SILVERJAW MINNOW	I		M	N	46	92.0	4.37	204	1.91	2.2
43-043	BLUNTNOSE MINNOW	O	T	C	N	200	400.0	19.01	722	6.77	1.8
43-044	CENTRAL STONEROLLER	H		N	N	477	954.0	45.34	3250	30.46	3.4
47-004	YELLOW BULLHEAD	I	T	C		8	16.0	0.76	710	6.65	44.3
77-008	GREEN SUNFISH	I	T	C	S	10	20.0	0.95	210	1.97	10.5
77-009	BLUEGILL SUNFISH	I	P	C	S	9	18.0	0.86	20	0.19	1.1
80-015	GREENSIDE DARTER	I	M	S	D	1	2.0	0.10	40	0.37	20.0
80-024	FANTAIL DARTER	I		C	D	125	250.0	11.88	304	2.85	1.2

**No Species:** 11    **Nat. Species:** 11    **Hybrids:** 0    **Total Counted:** 1052    **Total Rel. Wt. :** 10670

**IBI:** 36.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM58 River: 11-008 North Branch Sycamore Creek RM: 4.30 Date: 08/23/2012  
 Time Fished: 2833 Distance: 0.150 Drainge (sq mi): 4.4 Depth: 0  
 Location: behind Bethesda North Hospital Lat: 39.25264 Long: -84.33923

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	9	18.0	0.62	502	4.60	27.8
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	162	324.0	11.23	1008	9.23	3.1
43-013	CREEK CHUB	G	T	N	N	239	478.0	16.56	3630	33.23	7.5
43-039	SILVERJAW MINNOW	I		M	N	1	2.0	0.07	16	0.15	8.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	78	156.0	5.41	422	3.86	2.7
43-044	CENTRAL STONEROLLER	H		N	N	850	1700.0	58.91	5102	46.70	3.0
77-008	GREEN SUNFISH	I	T	C	S	2	4.0	0.14	24	0.22	6.0
80-024	FANTAIL DARTER	I		C	D	102	204.0	7.07	220	2.01	1.0

**No Species:** 8      **Nat. Species:** 8      **Hybrids:** 0      **Total Counted:** 1443      **Total Rel. Wt. :** 10924  
**IBI:** 36.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM57    River: 11-008    North Branch Sycamore Creek    RM: 5.00    Date: 08/23/2012

Time Fished: 1736    Distance: 0.150    Drainge (sq mi): 2.9    Depth: 0

Location: Behind 10478 Adventure Lane    Lat: 39.25010    Long: -84.35924

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	11	22.0	1.68	620	9.05	28.1
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	25	50.0	3.82	180	2.63	3.6
43-013	CREEK CHUB	G	T	N	N	234	468.0	35.78	3640	53.14	7.7
43-043	BLUNTNOSE MINNOW	O	T	C	N	1	2.0	0.15	20	0.29	10.0
43-044	CENTRAL STONEROLLER	H		N	N	373	746.0	57.03	2240	32.70	3.0
77-006	LARGEMOUTH BASS	C		C	F	6	12.0	0.92	50	0.73	4.1
77-008	GREEN SUNFISH	I	T	C	S	4	8.0	0.61	100	1.46	12.5

**No Species:** 7    **Nat. Species:** 7    **Hybrids:** 0    **Total Counted:** 654    **Total Rel. Wt. :** 6850

**IBI:** 34.0    **MIwb:** N/A



# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM40 River: 11-009 Polk Run RM: 0.30 Date: 08/20/2012

Time Fished: 0 Distance: 0.150 Drainge (sq mi): 10.8 Depth: 0

Location: Lat: 39.25080 Long: -84.29890

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-015	NORTHERN HOG SUCKER	I	M	S	R	3	6.0	0.22	52	0.37	8.6
43-013	CREEK CHUB	G	T	N	N	20	40.0	1.46	380	2.69	9.5
43-020	EMERALD SHINER	I		M	N	73	146.0	5.32	154	1.09	1.0
43-025	STRIPED SHINER	I		S	N	10	20.0	0.73	80	0.57	4.0
43-032	SPOTFIN SHINER	I		M	N	1	2.0	0.07	2	0.01	1.0
43-034	SAND SHINER	I	M	M	N	56	112.0	4.08	134	0.95	1.2
43-035	MIMIC SHINER	I	I	M	N	266	532.0	19.40	336	2.38	0.6
43-039	SILVERJAW MINNOW	I		M	N	4	8.0	0.29	16	0.11	2.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	203	406.0	14.81	652	4.61	1.6
43-044	CENTRAL STONEROLLER	H		N	N	331	662.0	24.14	6480	45.86	9.7
47-004	YELLOW BULLHEAD	I	T	C		11	22.0	0.80	1372	9.71	62.3
70-001	BROOK SILVERSIDE	I	M	M		1	2.0	0.07	8	0.06	4.0
77-003	ROCK BASS	C		C	S	1	2.0	0.07	16	0.11	8.0
77-004	SMALLMOUTH BASS	C	M	C	F	13	26.0	0.95	590	4.18	22.6
77-008	GREEN SUNFISH	I	T	C	S	59	118.0	4.30	1880	13.31	15.9
77-009	BLUEGILL SUNFISH	I	P	C	S	35	70.0	2.55	540	3.82	7.7
77-011	LONGEAR SUNFISH	I	M	C	S	4	8.0	0.29	260	1.84	32.5
80-015	GREENSIDE DARTER	I	M	S	D	7	14.0	0.51	150	1.06	10.7
80-022	RAINBOW DARTER	I	M	S	D	203	406.0	14.81	816	5.77	2.0
80-024	FANTAIL DARTER	I		C	D	70	140.0	5.11	212	1.50	1.5

**No Species:** 20    **Nat. Species:** 20    **Hybrids:** 0    **Total Counted:** 1371    **Total Rel. Wt. :** 14130

**IBI:** 52.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM39 River: 11-009 Polk Run RM: 3.00 Date: 08/20/2012  
 Time Fished: 2330 Distance: 0.150 Drainge (sq mi): 2.7 Depth: 0  
 Location: Dst. Montgomery Rd. Lat: 39.27865 Long: -84.31808

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	13	26.0	3.04	2422	34.37	93.1
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	97	194.0	22.66	600	8.52	3.0
43-013	CREEK CHUB	G	T	N	N	178	356.0	41.59	2110	29.95	5.9
43-043	BLUNTNOSE MINNOW	O	T	C	N	30	60.0	7.01	306	4.34	5.1
43-044	CENTRAL STONEROLLER	H		N	N	14	28.0	3.27	396	5.62	14.1
77-008	GREEN SUNFISH	I	T	C	S	27	54.0	6.31	484	6.87	8.9
77-009	BLUEGILL SUNFISH	I	P	C	S	26	52.0	6.07	620	8.80	11.9
80-014	JOHNNY DARTER	I		C	D	41	82.0	9.58	96	1.36	1.1
80-024	FANTAIL DARTER	I		C	D	2	4.0	0.47	12	0.17	3.0

**No Species:** 9      **Nat. Species:** 9      **Hybrids:** 0      **Total Counted:** 428      **Total Rel. Wt. :** 7046  
**IBI:** 32.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM46 River: 11-009 Polk Run RM: 3.20 Date: 08/21/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 2.6 Depth: 0  
 Location: Ust. 7 Gables Rd. Lat: 39.28092 Long: -84.32027

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	4	8.0	1.64	1480	27.62	185.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	52	104.0	21.31	290	5.41	2.7
43-013	CREEK CHUB	G	T	N	N	138	276.0	56.56	3020	56.36	10.9
43-043	BLUNTNOSE MINNOW	O	T	C	N	1	2.0	0.41	8	0.15	4.0
43-044	CENTRAL STONEROLLER	H		N	N	2	4.0	0.82	20	0.37	5.0
77-008	GREEN SUNFISH	I	T	C	S	17	34.0	6.97	420	7.84	12.3
77-009	BLUEGILL SUNFISH	I	P	C	S	3	6.0	1.23	40	0.75	6.6
80-014	JOHNNY DARTER	I		C	D	27	54.0	11.07	80	1.49	1.4

**No Species:** 8    **Nat. Species:** 8    **Hybrids:** 0    **Total Counted:** 244    **Total Rel. Wt. :** 5358  
**IBI:** 28.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM38 River: 11-010 O'Bannon Creek RM: 0.10 Date: 07/26/2012

Time Fished: 0 Distance: 0.200 Drainge (sq mi): 59.0 Depth: 0

Location: at Loveland Park Lat: 39.26955 Long: -84.25632

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-008	SILVER REDHORSE	I	M	S	R	1	1.5	0.42	3750	20.13	2500.0
43-001	COMMON CARP	O	T	M	G	5	7.5	2.12	12525	67.24	1670.0
43-020	EMERALD SHINER	I		M	N	18	27.0	7.63	15	0.08	0.5
43-024	SCARLET SHINER	I	M	S	N	1	1.5	0.42	3	0.02	2.0
43-032	SPOTFIN SHINER	I		M	N	7	10.5	2.97	27	0.14	2.5
43-035	MIMIC SHINER	I	I	M	N	16	24.0	6.78	37	0.20	1.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	55	82.5	23.31	78	0.42	0.9
43-044	CENTRAL STONEROLLER	H		N	N	29	43.5	12.29	231	1.24	5.3
47-004	YELLOW BULLHEAD	I	T	C		2	3.0	0.85	28	0.15	9.5
47-007	FLATHEAD CATFISH	P		C	F	1	1.5	0.42	1125	6.04	750.0
47-008	STONECAT MADTOM	I	I	C		3	4.5	1.27	22	0.12	5.0
77-003	ROCK BASS	C		C	S	1	1.5	0.42	15	0.08	10.0
77-004	SMALLMOUTH BASS	C	M	C	F	5	7.5	2.12	60	0.32	8.0
77-005	SPOTTED BASS	C		C	F	6	9.0	2.54	60	0.32	6.6
77-008	GREEN SUNFISH	I	T	C	S	10	15.0	4.24	210	1.13	14.0
77-009	BLUEGILL SUNFISH	I	P	C	S	41	61.5	17.37	375	2.01	6.1
80-015	GREENSIDE DARTER	I	M	S	D	8	12.0	3.39	22	0.12	1.8
80-016	BANDED DARTER	I	I	S	D	5	7.5	2.12	4	0.02	0.6
80-022	RAINBOW DARTER	I	M	S	D	22	33.0	9.32	39	0.21	1.1

**No Species:** 19    **Nat. Species:** 18    **Hybrids:** 0    **Total Counted:** 236    **Total Rel. Wt. :** 18628

**IBI:** 38.0    **MIwb:** 7.1

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM38 River: 11-010 O'Bannon Creek RM: 0.10 Date: 10/02/2012

Time Fished: 0 Distance: 0.200 Drainge (sq mi): 59.0 Depth: 0

Location: at Loveland Park Lat: 39.26955 Long: -84.25632

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-001	SKIPJACK HERRING	P		M		1	1.5	0.30	75	0.43	50.0
40-005	QUILLBACK CARPSUCKER	O		M	C	1	1.5	0.30	2250	12.97	1500.0
40-006	RIVER CARPSUCKER	O		M	C	1	1.5	0.30	1650	9.51	1100.0
40-010	GOLDEN REDHORSE	I	M	S	R	2	3.0	0.61	390	2.25	130.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	3	4.5	0.91	180	1.04	40.0
43-001	COMMON CARP	O	T	M	G	3	4.5	0.91	10950	63.12	2433.3
43-021	SILVER SHINER	I	I	S	N	1	1.5	0.30	9	0.05	6.0
43-025	STRIPED SHINER	I		S	N	1	1.5	0.30	3	0.02	2.0
43-032	SPOTFIN SHINER	I		M	N	4	6.0	1.22	9	0.05	1.5
43-035	MIMIC SHINER	I	I	M	N	2	3.0	0.61	3	0.02	1.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	39	58.5	11.85	150	0.86	2.5
43-044	CENTRAL STONEROLLER	H		N	N	59	88.5	17.93	495	2.85	5.5
47-007	FLATHEAD CATFISH	P		C	F	1	1.5	0.30	6	0.03	4.0
77-005	SPOTTED BASS	C		C	F	6	9.0	1.82	127	0.73	14.1
77-006	LARGEMOUTH BASS	C		C	F	1	1.5	0.30	60	0.35	40.0
77-008	GREEN SUNFISH	I	T	C	S	6	9.0	1.82	90	0.52	10.0
77-009	BLUEGILL SUNFISH	I	P	C	S	26	39.0	7.90	240	1.38	6.1
77-011	LONGEAR SUNFISH	I	M	C	S	84	126.0	25.53	315	1.82	2.5
77-012	REDEAR SUNFISH	I		C	E	2	3.0	0.61	90	0.52	30.0
77-021	GREEN SF X LONGEAR SF					1	1.5	0.30	30	0.17	20.0
80-011	LOGPERCH	I	M	S	D	5	7.5	1.52	37	0.22	5.0
80-015	GREENSIDE DARTER	I	M	S	D	16	24.0	4.86	52	0.30	2.1
80-016	BANDED DARTER	I	I	S	D	18	27.0	5.47	45	0.26	1.6
80-022	RAINBOW DARTER	I	M	S	D	45	67.5	13.68	90	0.52	1.3
80-024	FANTAIL DARTER	I		C	D	1	1.5	0.30	1	0.01	1.0

**No Species:** 24    **Nat. Species:** 22    **Hybrids:** 1    **Total Counted:** 329    **Total Rel. Wt. :** 17349

**IBI:** 50.0    **MIwb:** 7.6

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM37 River: 11-010 O'Bannon Creek RM: 1.80 Date: 07/26/2012

Time Fished: 2362 Distance: 0.200 Drainge (sq mi): 54.3 Depth: 0

Location: at O'Bannon Creek Rd. Lat: 39.26622 Long: -84.23366

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-009	BLACK REDHORSE	I	I	S	R	6	9.0	1.70	3300	28.17	366.6
40-010	GOLDEN REDHORSE	I	M	S	R	1	1.5	0.28	30	0.26	20.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	7	10.5	1.98	960	8.19	91.4
43-020	EMERALD SHINER	I		M	N	19	28.5	5.38	24	0.20	0.8
43-022	ROSYFACE SHINER	I	I	S	N	6	9.0	1.70	22	0.19	2.5
43-024	SCARLET SHINER	I	M	S	N	9	13.5	2.55	15	0.13	1.1
43-025	STRIPED SHINER	I		S	N	54	81.0	15.30	597	5.10	7.3
43-031	STEELCOLOR SHINER	I	P	M	N	24	36.0	6.80	238	2.04	6.6
43-032	SPOTFIN SHINER	I		M	N	6	9.0	1.70	33	0.28	3.6
43-034	SAND SHINER	I	M	M	N	2	3.0	0.57	4	0.04	1.5
43-035	MIMIC SHINER	I	I	M	N	17	25.5	4.82	49	0.42	1.9
43-043	BLUNTNOSE MINNOW	O	T	C	N	44	66.0	12.46	130	1.11	1.9
47-004	YELLOW BULLHEAD	I	T	C		6	9.0	1.70	382	3.27	42.5
77-003	ROCK BASS	C		C	S	14	21.0	3.97	750	6.40	35.7
77-004	SMALLMOUTH BASS	C	M	C	F	13	19.5	3.68	2955	25.22	151.5
77-005	SPOTTED BASS	C		C	F	5	7.5	1.42	15	0.13	2.0
77-008	GREEN SUNFISH	I	T	C	S	27	40.5	7.65	675	5.76	16.6
77-009	BLUEGILL SUNFISH	I	P	C	S	41	61.5	11.61	900	7.68	14.6
77-011	LONGEAR SUNFISH	I	M	C	S	1	1.5	0.28	405	3.46	270.0
80-015	GREENSIDE DARTER	I	M	S	D	30	45.0	8.50	189	1.61	4.2
80-016	BANDED DARTER	I	I	S	D	6	9.0	1.70	7	0.06	0.8
80-022	RAINBOW DARTER	I	M	S	D	13	19.5	3.68	30	0.26	1.5
80-024	FANTAIL DARTER	I		C	D	2	3.0	0.57	1	0.01	0.5

**No Species:** 23    **Nat. Species:** 23    **Hybrids:** 0    **Total Counted:** 353    **Total Rel. Wt. :** 11715

**IBI:** 52.0    **MIwb:** 9.1

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM37 River: 11-010 O'Bannon Creek RM: 1.80 Date: 10/03/2012

Time Fished: 2402 Distance: 0.200 Drainge (sq mi): 54.3 Depth: 0

Location: at O'Bannon Creek Rd. Lat: 39.26622 Long: -84.23366

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	1.5	0.14	135	0.42	90.0
40-006	RIVER CARPSUCKER	O		M	C	1	1.5	0.14	1800	5.56	1200.0
40-010	GOLDEN REDHORSE	I	M	S	R	44	66.0	6.36	19710	60.93	298.6
40-015	NORTHERN HOG SUCKER	I	M	S	R	4	6.0	0.58	765	2.36	127.5
43-001	COMMON CARP	O	T	M	G	1	1.5	0.14	2700	8.35	1800.0
43-020	EMERALD SHINER	I		M	N	78	117.0	11.27	345	1.07	2.9
43-021	SILVER SHINER	I	I	S	N	16	24.0	2.31	114	0.35	4.7
43-022	ROSYFACE SHINER	I	I	S	N	8	12.0	1.16	24	0.07	2.0
43-024	SCARLET SHINER	I	M	S	N	23	34.5	3.32	40	0.13	1.1
43-025	STRIPED SHINER	I		S	N	65	97.5	9.39	439	1.36	4.5
43-031	STEELCOLOR SHINER	I	P	M	N	2	3.0	0.29	1	0.00	0.5
43-032	SPOTFIN SHINER	I		M	N	76	114.0	10.98	324	1.00	2.8
43-034	SAND SHINER	I	M	M	N	51	76.5	7.37	154	0.48	2.0
43-039	SILVERJAW MINNOW	I		M	N	22	33.0	3.18	93	0.29	2.8
43-043	BLUNTNOSE MINNOW	O	T	C	N	74	111.0	10.69	411	1.27	3.7
43-044	CENTRAL STONEROLLER	H		N	N	64	96.0	9.25	1132	3.50	11.8
47-004	YELLOW BULLHEAD	I	T	C		1	1.5	0.14	7	0.02	5.0
70-001	BROOK SILVERSIDE	I	M	M		3	4.5	0.43	15	0.05	3.3
77-003	ROCK BASS	C		C	S	5	7.5	0.72	195	0.60	26.0
77-004	SMALLMOUTH BASS	C	M	C	F	23	34.5	3.32	2085	6.45	60.4
77-008	GREEN SUNFISH	I	T	C	S	17	25.5	2.46	415	1.28	16.2
77-009	BLUEGILL SUNFISH	I	P	C	S	29	43.5	4.19	501	1.55	11.5
77-011	LONGEAR SUNFISH	I	M	C	S	47	70.5	6.79	813	2.51	11.5
80-014	JOHNNY DARTER	I		C	D	2	3.0	0.29	4	0.01	1.5
80-015	GREENSIDE DARTER	I	M	S	D	17	25.5	2.46	81	0.25	3.1
80-016	BANDED DARTER	I	I	S	D	6	9.0	0.87	10	0.03	1.1
80-022	RAINBOW DARTER	I	M	S	D	10	15.0	1.45	30	0.09	2.0
80-024	FANTAIL DARTER	I		C	D	2	3.0	0.29	1	0.00	0.5

**No Species:** 28    **Nat. Species:** 27    **Hybrids:** 0    **Total Counted:** 692    **Total Rel. Wt. :** 32349

**IBI:** 52.0    **MIwb:** 9.5

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: RF08 River: 11-021 Turtle Creek RM: 6.10 Date: 08/08/2012

Time Fished: 0 Distance: 0.150 Drainge (sq mi): 18.0 Depth: 0

Location: Lat: 39.43110 Long: -84.22690

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-006	RIVER CARPSUCKER	O		M	C	1	2.0	0.03	40	0.38	20.0
40-010	GOLDEN REDHORSE	I	M	S	R	1	2.0	0.03	80	0.75	40.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	7	14.0	0.20	164	1.54	11.7
40-016	WHITE SUCKER	O	T	S	W	18	36.0	0.53	1280	12.01	35.5
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	3	6.0	0.09	12	0.11	2.0
43-013	CREEK CHUB	G	T	N	N	128	256.0	3.74	954	8.95	3.7
43-021	SILVER SHINER	I	I	S	N	1	2.0	0.03	8	0.08	4.0
43-022	ROSYFACE SHINER	I	I	S	N	5	10.0	0.15	10	0.09	1.0
43-024	SCARLET SHINER	I	M	S	N	4	8.0	0.12	18	0.17	2.2
43-025	STRIPED SHINER	I		S	N	231	462.0	6.75	880	8.26	1.9
43-034	SAND SHINER	I	M	M	N	62	124.0	1.81	200	1.88	1.6
43-039	SILVERJAW MINNOW	I		M	N	104	208.0	3.04	190	1.78	0.9
43-043	BLUNTNORSE MINNOW	O	T	C	N	2155	4310.0	62.99	1690	15.86	0.3
43-044	CENTRAL STONEROLLER	H		N	N	418	836.0	12.22	3022	28.36	3.6
47-004	YELLOW BULLHEAD	I	T	C		1	2.0	0.03	20	0.19	10.0
77-003	ROCK BASS	C		C	S	1	2.0	0.03	40	0.38	20.0
77-004	SMALLMOUTH BASS	C	M	C	F	4	8.0	0.12	250	2.35	31.2
77-005	SPOTTED BASS	C		C	F	1	2.0	0.03	100	0.94	50.0
77-008	GREEN SUNFISH	I	T	C	S	44	88.0	1.29	1062	9.97	12.0
77-009	BLUEGILL SUNFISH	I	P	C	S	26	52.0	0.76	200	1.88	3.8
80-014	JOHNNY DARTER	I		C	D	14	28.0	0.41	40	0.38	1.4
80-015	GREENSIDE DARTER	I	M	S	D	14	28.0	0.41	120	1.13	4.2
80-022	RAINBOW DARTER	I	M	S	D	136	272.0	3.98	212	1.99	0.7
80-024	FANTAIL DARTER	I		C	D	42	84.0	1.23	64	0.60	0.7

**No Species:** 24    **Nat. Species:** 24    **Hybrids:** 0    **Total Counted:** 3421    **Total Rel. Wt. :** 10656

**IBI:** 40.0    **MIwb:** N/A



# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: RF09 River: 11-022 Dry Run RM: 1.80 Date: 08/08/2012  
 Time Fished: 3013 Distance: 0.150 Drainge (sq mi): 5.0 Depth: 0  
 Location: Lat: 39.38310 Long: -84.20440

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	2	4.0	0.49	180	4.65	45.0
43-003	GOLDEN SHINER	I	T	M	N	1	2.0	0.25	12	0.31	6.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	148	296.0	36.54	500	12.91	1.6
43-013	CREEK CHUB	G	T	N	N	44	88.0	10.86	640	16.53	7.2
43-043	BLUNTNOSE MINNOW	O	T	C	N	30	60.0	7.41	120	3.10	2.0
43-044	CENTRAL STONEROLLER	H		N	N	34	68.0	8.40	500	12.91	7.3
77-006	LARGEMOUTH BASS	C		C	F	2	4.0	0.49	110	2.84	27.5
77-008	GREEN SUNFISH	I	T	C	S	32	64.0	7.90	1090	28.15	17.0
77-009	BLUEGILL SUNFISH	I	P	C	S	54	108.0	13.33	540	13.95	5.0
80-022	RAINBOW DARTER	I	M	S	D	42	84.0	10.37	140	3.62	1.6
80-024	FANTAIL DARTER	I		C	D	16	32.0	3.95	40	1.03	1.2

**No Species:** 11    **Nat. Species:** 11    **Hybrids:** 0    **Total Counted:** 405    **Total Rel. Wt. :** 3872  
**IBI:** 38.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: RF10 River: 11-030 Newman Run RM: 0.30 Date: 08/30/2012

Time Fished: 0 Distance: 0.150 Drainge (sq mi): 9.0 Depth: 0

Location: Lat: 39.51830 Long: 84.09830

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-999	NO FISH					0	0.0	***.**	0	0.00	*****

**No Species:** 0      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 0      **Total Rel. Wt. :** 0

**IBI:** -9.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM103 River: 11-047 Trib. to Little Miami R. (RM 0.83) RM: 0.20 Date: 08/30/2012

Time Fished: 2126 Distance: 0.150 Drainge (sq mi): 1.7 Depth: 0

Location: dst. Kellogg Rd. Lat: 39.07626 Long: -84.42218

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-001	COMMON CARP	O	T	M	G	1	2.0	0.30	20	2.02	10.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	6	12.0	1.80	30	3.02	2.5
43-013	CREEK CHUB	G	T	N	N	156	312.0	46.71	560	56.45	1.7
43-020	EMERALD SHINER	I		M	N	22	44.0	6.59	20	2.02	0.4
43-025	STRIPED SHINER	I		S	N	2	4.0	0.60	2	0.20	0.5
43-034	SAND SHINER	I	M	M	N	34	68.0	10.18	30	3.02	0.4
43-035	MIMIC SHINER	I	I	M	N	55	110.0	16.47	38	3.83	0.3
43-039	SILVERJAW MINNOW	I		M	N	5	10.0	1.50	30	3.02	3.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	19	38.0	5.69	48	4.84	1.2
43-044	CENTRAL STONEROLLER	H		N	N	13	26.0	3.89	78	7.86	3.0
47-004	YELLOW BULLHEAD	I	T	C		2	4.0	0.60	20	2.02	5.0
77-004	SMALLMOUTH BASS	C	M	C	F	1	2.0	0.30	30	3.02	15.0
77-009	BLUEGILL SUNFISH	I	P	C	S	1	2.0	0.30	8	0.81	4.0
77-011	LONGEAR SUNFISH	I	M	C	S	1	2.0	0.30	10	1.01	5.0
80-016	BANDED DARTER	I	I	S	D	3	6.0	0.90	10	1.01	1.6
80-022	RAINBOW DARTER	I	M	S	D	12	24.0	3.59	50	5.04	2.0
85-001	FRESHWATER DRUM		P	M		1	2.0	0.30	8	0.81	4.0

**No Species:** 17    **Nat. Species:** 16    **Hybrids:** 0    **Total Counted:** 334    **Total Rel. Wt. :** 992

**IBI:** 52.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM53    River: 11-049    Trib. to Sycamore Creek (RM 1.12)    RM: 0.10    Date: 09/25/2012

Time Fished: 2139    Distance: 0.150    Drainge (sq mi): 4.9    Depth: 0

Location: at mouth    Lat: 39.21640    Long: -84.33330

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	50	100.0	7.26	300	5.36	3.0
43-013	CREEK CHUB	G	T	N	N	255	510.0	37.01	2040	36.43	4.0
43-043	BLUNTNNOSE MINNOW	O	T	C	N	168	336.0	24.38	440	7.86	1.3
43-044	CENTRAL STONEROLLER	H		N	N	209	418.0	30.33	2800	50.00	6.7
80-024	FANTAIL DARTER	I		C	D	7	14.0	1.02	20	0.36	1.4
<b>No Species: 5</b>		<b>Nat. Species: 5</b>		<b>Hybrids: 0</b>		<b>Total Counted: 689</b>		<b>Total Rel. Wt. :</b>		<b>5600</b>	
<b>IBI: 24.0</b>		<b>MIwb: N/A</b>									

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM56 River: 11-049 Trib. to Sycamore Creek (RM 1.12) RM: 0.30 Date: 08/25/2012

Time Fished: 0 Distance: 0.150 Drainge (sq mi): 5.6 Depth: 0

Location: Ust. Loveland Maderia Rd. Ust. OEPA site Lat: 39.21630 Long: -84.33630

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	12	24.0	1.94	1680	18.06	70.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	18	36.0	2.90	200	2.15	5.5
43-013	CREEK CHUB	G	T	N	N	266	532.0	42.90	3496	37.59	6.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	31	62.0	5.00	100	1.08	1.6
43-044	CENTRAL STONEROLLER	H		N	N	292	584.0	47.10	3820	41.08	6.5
80-024	FANTAIL DARTER	I		C	D	1	2.0	0.16	4	0.04	2.0

**No Species:** 6      **Nat. Species:** 6      **Hybrids:** 0      **Total Counted:** 620      **Total Rel. Wt. :** 9300

**IBI:** 32.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM55 River: 11-049 Trib. to Sycamore Creek (RM 1.12) RM: 1.00 Date: 08/25/2012

Time Fished: 1713 Distance: 0.150 Drainge (sq mi): 5.3 Depth: 0

Location: Ust. Blome Rd. Lat: 39.21770 Long: -84.34671

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-013	CREEK CHUB	G	T	N	N	165	330.0	44.47	1756	55.68	5.3
43-042	FATHEAD MINNOW	O	T	C	N	2	4.0	0.54	8	0.25	2.0
43-044	CENTRAL STONEROLLER	H		N	N	204	408.0	54.99	1390	44.07	3.4

**No Species:** 3      **Nat. Species:** 3      **Hybrids:** 0      **Total Counted:** 371      **Total Rel. Wt. :** 3154

**IBI:** 24.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM74 River: 11-051 East Fork Duck Creek RM: 0.15 Date: 08/07/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 3.4 Depth: 0  
 Location: Dst. CSO 71 and 66 Lat: 39.15771 Long: -84.40774

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	17	34.0	3.48	1500	15.89	44.1
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	38	76.0	7.77	340	3.60	4.4
43-013	CREEK CHUB	G	T	N	N	170	340.0	34.76	5680	60.18	16.7
43-020	EMERALD SHINER	I		M	N	29	58.0	5.93	80	0.85	1.3
43-039	SILVERJAW MINNOW	I		M	N	3	6.0	0.61	8	0.08	1.3
43-043	BLUNTNOSE MINNOW	O	T	C	N	53	106.0	10.84	360	3.81	3.4
43-044	CENTRAL STONEROLLER	H		N	N	121	242.0	24.74	710	7.52	2.9
77-008	GREEN SUNFISH	I	T	C	S	58	116.0	11.86	760	8.05	6.5

**No Species:** 8      **Nat. Species:** 8      **Hybrids:** 0      **Total Counted:** 489      **Total Rel. Wt. :** 9438  
**IBI:** 28.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM84 River: 11-051 East Fork Duck Creek RM: 0.50 Date: 08/16/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 2.2 Depth: 0  
 Location: Lat: 39.16310 Long: -84.40220

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	6	12.0	5.50	20	0.81	1.6
43-013	CREEK CHUB	G	T	N	N	71	142.0	65.14	2140	86.85	15.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	3	6.0	2.75	4	0.16	0.6
43-044	CENTRAL STONEROLLER	H		N	N	29	58.0	26.61	300	12.18	5.1

**No Species:** 4      **Nat. Species:** 4      **Hybrids:** 0      **Total Counted:** 109      **Total Rel. Wt. :** 2464  
**IBI:** 24.0      **MIwb:** N/A



# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM85 River: 11-051 East Fork Duck Creek RM: 1.90 Date: 08/16/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 1.5 Depth: 0  
 Location: Stewart Ave. across from BMW dealer Lat: 39.17864 Long: -84.39526

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	1	2.0	7.14	6	1.55	3.0
43-013	CREEK CHUB	G	T	N	N	10	20.0	71.43	340	88.08	17.0
43-044	CENTRAL STONEROLLER	H		N	N	3	6.0	21.43	40	10.36	6.6

**No Species:** 3      **Nat. Species:** 3      **Hybrids:** 0      **Total Counted:** 14      **Total Rel. Wt. :** 386  
**IBI:** 18.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: River: 11-051 East Fork Duck Creek RM: 2.90 Date: 08/15/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 0.0 Depth: 0  
 Location: Lat: 0.00000 Long: 0.00000

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-013	CREEK CHUB	G	T	N	N	49	98.0	100.00	310	100.00	3.1

**No Species:** 0      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 49      **Total Rel. Wt. :** 310  
**IBI:** 0.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM69 River: 11-064 Trib. to Dry Run (RM 4.20) RM: 0.10 Date: 08/29/2012  
 Time Fished: 0 Distance: 0.000 Drainge (sq mi): 0.9 Depth: 0  
 Location: RM 0.1 Lat: 39.10403 Long: -84.32073

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 1      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 0      **Total Rel. Wt. :** 0  
**IBI:** -9.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM21 River: 11-066 Trib to LMR at RM 13.1 RM: 1.50 Date: 08/14/2012  
 Time Fished: 1340 Distance: 0.150 Drainge (sq mi): 3.0 Depth: 0  
 Location: At Red Bird Hollow Lat: 39.17167 Long: -84.31737

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	3	6.0	1.51	220	15.01	36.6
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	90	180.0	45.23	360	24.56	2.0
43-013	CREEK CHUB	G	T	N	N	30	60.0	15.08	300	20.46	5.0
43-016	SOUTH. REDBELLY DACE	H		S	N	1	2.0	0.50	6	0.41	3.0
43-044	CENTRAL STONEROLLER	H		N	N	46	92.0	23.12	460	31.38	5.0
80-022	RAINBOW DARTER	I	M	S	D	29	58.0	14.57	120	8.19	2.0

**No Species:** 6      **Nat. Species:** 6      **Hybrids:** 0      **Total Counted:** 199      **Total Rel. Wt. :** 1466

**IBI:** 36.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM20    River: 11-067    Trib to LMR at RM 7.75    RM: 1.20    Date: 08/14/2012

Time Fished: 0    Distance: 0.150    Drainge (sq mi): 0.5    Depth: 0

Location: At Walton Creek Rd.    Lat: 39.15506    Long: -84.35799

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	27	54.0	24.55	160	5.48	2.9
43-013	CREEK CHUB	G	T	N	N	83	166.0	75.45	2760	94.52	16.6

**No Species:** 2    **Nat. Species:** 2    **Hybrids:** 0    **Total Counted:** 110    **Total Rel. Wt. :** 2920

**IBI:** 24.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM19 River: 11-068 Trib (RM2.7) to Trib to LMR at RM13.1 RM: 0.50 Date: 08/14/2012

Time Fished: 0 Distance: 0.150 Drainge (sq mi): 0.6 Depth: 0

Location: Dst. Drake Rd. Lat: 39.17218 Long: -84.34544

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-999	NO FISH					0	0.0	***.**	0	0.00	*****

**No Species:** 1      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 0      **Total Rel. Wt. :** 0

**IBI:** 12.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM44 River: 11-069 Trib to Polk Run at RM 1.79 RM: 0.40 Date: 08/22/2012  
 Time Fished: 2059 Distance: 0.150 Drainge (sq mi): 2.4 Depth: 0  
 Location: adj. Old Creek Trail; Dst. Terwilliger Trail Rd. Lat: 39.26780 Long: -84.31475

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	10	20.0	2.21	2280	32.60	114.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	93	186.0	20.53	480	6.86	2.5
43-013	CREEK CHUB	G	T	N	N	242	484.0	53.42	2082	29.77	4.3
43-043	BLUNTNOSE MINNOW	O	T	C	N	13	26.0	2.87	56	0.80	2.1
43-044	CENTRAL STONEROLLER	H		N	N	20	40.0	4.42	122	1.74	3.0
47-004	YELLOW BULLHEAD	I	T	C		5	10.0	1.10	824	11.78	82.4
77-008	GREEN SUNFISH	I	T	C	S	37	74.0	8.17	1090	15.58	14.7
80-014	JOHNNY DARTER	I		C	D	33	66.0	7.28	60	0.86	0.9

**No Species:** 8      **Nat. Species:** 8      **Hybrids:** 0      **Total Counted:** 453      **Total Rel. Wt. :** 6994  
**IBI:** 30.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM41 River: 11-069 Trib to Polk Run at RM 1.79 RM: 2.50 Date: 08/22/2012  
 Time Fished: 833 Distance: 0.150 Drainge (sq mi): 1.3 Depth: 0  
 Location: 8073 School Rd. (Private Residence) Lat: 39.28815 Long: -84.33721

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	1	2.0	0.25	20	0.81	10.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	45	90.0	11.36	220	8.94	2.4
43-013	CREEK CHUB	G	T	N	N	173	346.0	43.69	1524	61.95	4.4
43-043	BLUNTNOSE MINNOW	O	T	C	N	15	30.0	3.79	70	2.85	2.3
43-044	CENTRAL STONEROLLER	H		N	N	155	310.0	39.14	562	22.85	1.8
77-006	LARGEMOUTH BASS	C		C	F	3	6.0	0.76	20	0.81	3.3
77-008	GREEN SUNFISH	I	T	C	S	4	8.0	1.01	44	1.79	5.5

**No Species:** 7      **Nat. Species:** 7      **Hybrids:** 0      **Total Counted:** 396      **Total Rel. Wt. :** 2460

**IBI:** 36.0      **MIwb:** N/A



# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM43    River: 11-070    Trib to Polk Run @ RM 0.70    RM: 0.70    Date: 08/22/2012

Time Fished: 2152    Distance: 0.150    Drainge (sq mi): 2.5    Depth: 0

Location: Heartwood Ct. ; off abandoned Rd.    Lat: 39.26112    Long: -84.29697

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	40	80.0	16.19	168	5.77	2.1
43-013	CREEK CHUB	G	T	N	N	110	220.0	44.53	1408	48.35	6.4
43-043	BLUNTNOSE MINNOW	O	T	C	N	4	8.0	1.62	28	0.96	3.5
43-044	CENTRAL STONEROLLER	H		N	N	75	150.0	30.36	568	19.51	3.7
77-008	GREEN SUNFISH	I	T	C	S	18	36.0	7.29	740	25.41	20.5
<b>No Species: 5</b>		<b>Nat. Species: 5</b>		<b>Hybrids: 0</b>		<b>Total Counted: 247</b>		<b>Total Rel. Wt. :</b>		<b>2912</b>	
<b>IBI: 28.0</b>		<b>MIwb: N/A</b>									

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM42    River: 11-070    Trib to Polk Run @ RM 0.70    RM: 2.00    Date: 08/21/2012  
 Time Fished: 1224    Distance: 0.150    Drainge (sq mi): 0.8    Depth: 0  
 Location: behind Conveyer System Manufactor (W. Loveland & Glen Lake Rd.)    Lat: 39.27716    Long: -84.29975

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-013	CREEK CHUB	G	T	N	N	134	268.0	48.55	3800	50.49	14.1
43-044	CENTRAL STONEROLLER	H		N	N	47	94.0	17.03	420	5.58	4.4
77-008	GREEN SUNFISH	I	T	C	S	93	186.0	33.70	3080	40.92	16.5
77-009	BLUEGILL SUNFISH	I	P	C	S	2	4.0	0.72	226	3.00	56.5
<b>No Species:</b> 4		<b>Nat. Species:</b> 4		<b>Hybrids:</b> 0		<b>Total Counted:</b> 276		<b>Total Rel. Wt. :</b>		7526	
<b>IBI:</b> 30.0		<b>MIwb:</b> N/A									



# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM65 River: 11-072 Trbi to N Br Sycamore Creek @ RM5.3 RM: 1.10 Date: 08/28/2012

Time Fished: 0 Distance: 0.150 Drainge (sq mi): 0.2 Depth: 0

Location: RM 1.1 Lat: 39.23713 Long: -84.37125

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 1      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 0      **Total Rel. Wt. :** 0

**IBI:** -9.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM63    River: 11-073    Trib to NBr Sycamore Cr @RM 5.4    RM: 0.60    Date: 08/28/2012

Time Fished: 1903    Distance: 0.150    Drainge (sq mi): 1.1    Depth: 0

Location: Adj. Old Pfiffer Rd. @ Ursuline H.S.    Lat: 39.24888    Long: -84.37217

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	2	4.0	1.15	110	3.53	27.5
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	14	28.0	8.05	190	6.09	6.7
43-013	CREEK CHUB	G	T	N	N	83	166.0	47.70	1610	51.60	9.7
43-044	CENTRAL STONEROLLER	H		N	N	64	128.0	36.78	710	22.76	5.5
77-008	GREEN SUNFISH	I	T	C	S	11	22.0	6.32	500	16.03	22.7

**No Species:** 5    **Nat. Species:** 5    **Hybrids:** 0    **Total Counted:** 174    **Total Rel. Wt. :** 3120

**IBI:** 32.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM64    River: 11-074    Trib to NBr Scyamore Cr @ RM0.75    RM: 1.40    Date: 08/28/2012

Time Fished: 2447    Distance: 0.150    Drainge (sq mi): 0.5    Depth: 0

Location: Ust. Bike path    Lat: 39.24045    Long: -84.34632

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-013	CREEK CHUB	G	T	N	N	188	376.0	100.00	1390	100.00	3.7

**No Species:** 1    **Nat. Species:** 1    **Hybrids:** 0    **Total Counted:** 188    **Total Rel. Wt. :** 1390

**IBI:** 16.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM80    River: 11-075    Trib to Duck Creek @ RM 4.8    RM: 0.20    Date: 08/15/2012

Time Fished: 0    Distance: 0.150    Drainge (sq mi): 1.4    Depth: 0

Location: Dst. Kennedy Ave.    Lat: 39.16710    Long: -84.41972

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
77-008	GREEN SUNFISH	I	T	C	S	9	18.0	100.00	30	100.00	1.6

**No Species:** 1    **Nat. Species:** 1    **Hybrids:** 0    **Total Counted:** 9    **Total Rel. Wt. :** 30

**IBI:** 12.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM83    River: 11-075    Trib to Duck Creek @ RM 4.8    RM: 0.80    Date: 08/02/2012

Time Fished: 0    Distance: 0.150    Drainge (sq mi): 1.2    Depth: 0

Location: RM 0.8    Lat: 39.17404    Long: -84.42355

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 1    **Nat. Species:** 1    **Hybrids:** 0    **Total Counted:** 0    **Total Rel. Wt. :** 0

**IBI:** -9.0    **MIwb:** N/A



# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM92 River: 11-076 Little Duck Creek RM: 0.20 Date: 08/09/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 1.7 Depth: 0  
 Location: RM 0.2 Lat: 39.13586 Long: -84.40015

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 1      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 0      **Total Rel. Wt. :** 0  
**IBI:** -9.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM91    River: 11-076    Little Duck Creek    RM: 1.00    Date: 08/02/2012

Time Fished: 0    Distance: 0.150    Drainge (sq mi): 0.0    Depth: 0

Location:    Lat: 0.00000    Long: 0.00000

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 1    **Nat. Species:** 1    **Hybrids:** 0    **Total Counted:** 0    **Total Rel. Wt. :** 0

**IBI:** -9.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM89 River: 11-076 Little Duck Creek RM: 1.40 Date: 08/09/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 1.1 Depth: 0  
 Location: at Watterson Rd. Lat: 39.14701 Long: -84.39137

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	7	14.0	0.75	520	10.14	37.1
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	30	60.0	3.23	140	2.73	2.3
43-013	CREEK CHUB	G	T	N	N	640	1280.0	68.82	2560	49.90	2.0
43-044	CENTRAL STONEROLLER	H		N	N	248	496.0	26.67	1890	36.84	3.8
77-008	GREEN SUNFISH	I	T	C	S	5	10.0	0.54	20	0.39	2.0
<b>No Species: 5</b>		<b>Nat. Species: 5</b>		<b>Hybrids: 0</b>		<b>Total Counted: 930</b>		<b>Total Rel. Wt. :</b>		<b>5130</b>	
<b>IBI: 30.0</b>		<b>MIwb: N/A</b>									

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM88 River: 11-076 Little Duck Creek RM: 1.80 Date: 08/09/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 0.8 Depth: 0  
 Location: RM 1.8 Lat: 39.15100 Long: -84.38855

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 1      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 0      **Total Rel. Wt. :** 0  
**IBI:** -9.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM90 River: 11-076 Little Duck Creek RM: 2.40 Date: 08/09/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 0.5 Depth: 0  
 Location: at Settle Rd. Lat: 39.15639 Long: -84.38515

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	1	2.0	0.13	100	1.78	50.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	194	388.0	26.11	740	13.17	1.9
43-013	CREEK CHUB	G	T	N	N	351	702.0	47.24	3720	66.19	5.3
43-044	CENTRAL STONEROLLER	H		N	N	197	394.0	26.51	1060	18.86	2.6

**No Species:** 4      **Nat. Species:** 4      **Hybrids:** 0      **Total Counted:** 743      **Total Rel. Wt. :** 5620  
**IBI:** 34.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM87 River: 11-076 Little Duck Creek RM: 2.60 Date: 08/09/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 0.5 Depth: 0  
 Location: at Plainville Rd. Lat: 39.15843 Long: -84.38071

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	10	20.0	2.13	800	16.53	40.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	145	290.0	30.85	580	11.98	2.0
43-013	CREEK CHUB	G	T	N	N	192	384.0	40.85	2800	57.85	7.2
43-044	CENTRAL STONEROLLER	H		N	N	123	246.0	26.17	660	13.64	2.6
<b>No Species:</b> 4		<b>Nat. Species:</b> 4		<b>Hybrids:</b> 0		<b>Total Counted:</b> 470		<b>Total Rel. Wt. :</b>		4840	
<b>IBI:</b> 34.0		<b>MIwb:</b> N/A									

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM86 River: 11-076 Little Duck Creek RM: 2.70 Date: 08/16/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 0.4 Depth: 0  
 Location: at Madison Rd. Lat: 39.16003 Long: -84.38106

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	1	2.0	0.11	40	1.14	20.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	390	780.0	43.14	620	17.61	0.7
43-013	CREEK CHUB	G	T	N	N	353	706.0	39.05	2120	60.23	3.0
43-044	CENTRAL STONEROLLER	H		N	N	160	320.0	17.70	740	21.02	2.3
<b>No Species:</b> 4		<b>Nat. Species:</b> 4		<b>Hybrids:</b> 0		<b>Total Counted:</b> 904		<b>Total Rel. Wt. :</b>		3520	
<b>IBI:</b> 34.0		<b>MIwb:</b> N/A									

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM82    River: 11-077    Trib to Little Duck Cr. @ RM 4.42    RM: 0.10    Date: 08/15/2012  
 Time Fished: 0    Distance: 0.150    Drainge (sq mi): 1.4    Depth: 0  
 Location: RM 0.1    Lat: 39.18326    Long: -84.37000

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 1    **Nat. Species:** 1    **Hybrids:** 0    **Total Counted:** 0    **Total Rel. Wt. :** 0  
**IBI:** -9.0    **MIwb:** N/A



# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM93 River: 11-078 Trib to McCullough Run @ RM 1.08 RM: 1.50 Date: 08/16/2012

Time Fished: 0 Distance: 0.150 Drainge (sq mi): 0.9 Depth: 0

Location: at Ragland Rd. Lat: 39.11579 Long: -84.35843

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	95	190.0	34.67	320	13.84	1.6
43-013	CREEK CHUB	G	T	N	N	105	210.0	38.32	1400	60.55	6.6
43-043	BLUNTNOSSE MINNOW	O	T	C	N	1	2.0	0.36	4	0.17	2.0
43-044	CENTRAL STONEROLLER	H		N	N	46	92.0	16.79	340	14.71	3.7
77-008	GREEN SUNFISH	I	T	C	S	4	8.0	1.46	120	5.19	15.0
80-022	RAINBOW DARTER	I	M	S	D	22	44.0	8.03	120	5.19	2.7
80-024	FANTAIL DARTER	I		C	D	1	2.0	0.36	8	0.35	4.0

**No Species:** 7      **Nat. Species:** 7      **Hybrids:** 0      **Total Counted:** 274      **Total Rel. Wt. :** 2312

**IBI:** 46.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM101 River: 11-079 Trib to Clough Creek at RM3.06 RM: 1.05 Date: 08/28/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 0.7 Depth: 0  
 Location: at Paddison Rd. Lat: 39.08101 Long: -84.36864

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	23	46.0	19.01	120	9.02	2.6
43-013	CREEK CHUB	G	T	N	N	98	196.0	80.99	1210	90.98	6.1

**No Species:** 2      **Nat. Species:** 2      **Hybrids:** 0      **Total Counted:** 121      **Total Rel. Wt. :** 1330  
**IBI:** 24.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM102 River: 11-080 Trib RM0.66 to Trib Clough Cr RM 3.06 RM: 0.20 Date: 08/30/2012

Time Fished: 0 Distance: 0.150 Drainge (sq mi): 1.1 Depth: 0

Location: RM 0.2 Lat: 39.08561 Long: -84.37340

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 1      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 0      **Total Rel. Wt. :** 0

**IBI:** -9.0      **MIwb:** N/A



# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM23    River: 11-082    Trib to LMR at RM 24.06    RM: 0.20    Date: 08/14/2012

Time Fished: 0    Distance: 0.150    Drainge (sq mi): 1.6    Depth: 0

Location: RM 0.2    Lat: 39.27150    Long: -84.26401

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 1    **Nat. Species:** 1    **Hybrids:** 0    **Total Counted:** 0    **Total Rel. Wt. :** 0

**IBI:** -9.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM24    River: 11-083    Trib to LMR at RM 21.82    RM: 0.10    Date: 08/29/2012

Time Fished: 0    Distance: 0.150    Drainge (sq mi): 0.8    Depth: 0

Location: RM 0.1    Lat: 39.25155    Long: -84.29015

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 1    **Nat. Species:** 1    **Hybrids:** 0    **Total Counted:** 0    **Total Rel. Wt. :** 0

**IBI:** -9.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM62 River: 11-084 Trib to NBr. Sycamore Cr @ RM 2.33 RM: 1.80 Date: 08/28/2012

Time Fished: 0 Distance: 0.150 Drainge (sq mi): 0.6 Depth: 0

Location: Cincinnati Christian Academy Lat: 39.26974 Long: -84.33316

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-013	CREEK CHUB	G	T	N	N	220	440.0	100.00	2108	100.00	4.7

**No Species:** 1      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 220      **Total Rel. Wt. :** 2108

**IBI:** 20.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM22    River: 11-085    Trib to LMR at RM 13.8    RM: 0.30    Date: 08/14/2012

Time Fished: 0    Distance: 0.000    Drainge (sq mi): 1.2    Depth: 0

Location: Across road from Indian Hill Public Works; horse trail to Creek    Lat: 39.18450    Long: -84.29354

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****.*

**No Species:** 1    **Nat. Species:** 1    **Hybrids:** 0    **Total Counted:** 0    **Total Rel. Wt. :** 0  
**IBI:** -9.0    **MIwb:** N/A



# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM54 River: 11-086 Trib 1.82 to Trib to Sycamore Cr RM: 0.40 Date: 08/29/2012  
 Time Fished: Distance: RM1.12 Drainge (sq mi): Depth:  
 Location: 0 0.150 Lat: 1.6 Long: 0  
 RM 0.4 39.21606 -84.36608

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****.*

**No Species:** 1    **Nat. Species:** 1    **Hybrids:** 0    **Total Counted:** 0    **Total Rel. Wt. :** 0  
**IBI:** -9.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM36 River: 11-100 East Fork Little Miami River RM: 0.70 Date: 08/15/2012

Time Fished: 2361 Distance: 0.500 Drainge (sq mi): 499.0 Depth: 0

Location: Dst. S. Milford Rd. Lat: 39.16329 Long: -84.26286

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	2.0	0.40	60	0.04	30.0
20-003	GIZZARD SHAD	O		M		133	266.0	53.20	43200	29.24	162.4
40-004	SMALLMOUTH BUFFALO	I		M	C	28	56.0	11.20	56100	37.97	1001.7
40-005	QUILLBACK CARPSUCKER	O		M	C	4	8.0	1.60	7200	4.87	900.0
40-006	RIVER CARPSUCKER	O		M	C	1	2.0	0.40	800	0.54	400.0
40-007	HIGHFIN CARPSUCKER	O		M	C	2	4.0	0.80	1440	0.97	360.0
40-008	SILVER REDHORSE	I	M	S	R	4	8.0	1.60	6400	4.33	800.0
40-010	GOLDEN REDHORSE	I	M	S	R	6	12.0	2.40	4400	2.98	366.6
40-023	SMALLMOUTH REDHORSE	I	M	S	R	1	2.0	0.40	20	0.01	10.0
43-001	COMMON CARP	O	T	M	G	3	6.0	1.20	13800	9.34	2300.0
43-020	EMERALD SHINER	I		M	N	32	64.0	12.80	80	0.05	1.2
43-043	BLUNTNOSE MINNOW	O	T	C	N	2	4.0	0.80	12	0.01	3.0
47-002	CHANNEL CATFISH			C	F	2	4.0	0.80	5200	3.52	1300.0
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	0.40	400	0.27	200.0
74-001	WHITE BASS	P		M	F	1	2.0	0.40	60	0.04	30.0
77-001	WHITE CRAPPIE	I		C	S	1	2.0	0.40	80	0.05	40.0
77-002	BLACK CRAPPIE	I		C	S	1	2.0	0.40	260	0.18	130.0
77-004	SMALLMOUTH BASS	C	M	C	F	1	2.0	0.40	300	0.20	150.0
77-005	SPOTTED BASS	C		C	F	3	6.0	1.20	20	0.01	3.3
77-006	LARGEMOUTH BASS	C		C	F	3	6.0	1.20	480	0.32	80.0
77-008	GREEN SUNFISH	I	T	C	S	3	6.0	1.20	100	0.07	16.6
77-009	BLUEGILL SUNFISH	I	P	C	S	2	4.0	0.80	220	0.15	55.0
77-011	LONGEAR SUNFISH	I	M	C	S	9	18.0	3.60	340	0.23	18.8
80-001	SAUGER	P		S	F	1	2.0	0.40	2000	1.35	1000.0
85-001	FRESHWATER DRUM		P	M		5	10.0	2.00	4780	3.24	478.0

**No Species:** 25    **Nat. Species:** 24    **Hybrids:** 0    **Total Counted:** 250    **Total Rel. Wt. :** 147752

**IBI:** 38.0    **MIwb:** 9.2

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM36 River: 11-100 East Fork Little Miami River RM: 0.70 Date: 10/02/2012  
 Time Fished: 2046 Distance: 0.500 Drainge (sq mi): 499.0 Depth: 0  
 Location: Dst. S. Milford Rd. Lat: 39.16329 Long: -84.26286

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		73	146.0	32.30	15760	19.50	107.9
40-004	SMALLMOUTH BUFFALO	I		M	C	16	32.0	7.08	21840	27.03	682.5
40-005	QUILLBACK CARPSUCKER	O		M	C	4	8.0	1.77	8100	10.02	1012.5
40-010	GOLDEN REDHORSE	I	M	S	R	4	8.0	1.77	3060	3.79	382.5
40-013	RIVER REDHORSE	I	I	S	R	1	2.0	0.44	3500	4.33	1750.0
43-001	COMMON CARP	O	T	M	G	5	10.0	2.21	20900	25.87	2090.0
43-020	EMERALD SHINER	I		M	N	46	92.0	20.35	70	0.09	0.7
43-034	SAND SHINER	I	M	M	N	2	4.0	0.88	8	0.01	2.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	22	44.0	9.73	40	0.05	0.9
77-001	WHITE CRAPPIE	I		C	S	1	2.0	0.44	200	0.25	100.0
77-005	SPOTTED BASS	C		C	F	12	24.0	5.31	1870	2.31	77.9
77-006	LARGEMOUTH BASS	C		C	F	3	6.0	1.33	332	0.41	55.3
77-009	BLUEGILL SUNFISH	I	P	C	S	1	2.0	0.44	40	0.05	20.0
77-011	LONGEAR SUNFISH	I	M	C	S	20	40.0	8.85	464	0.57	11.6
80-001	SAUGER	P		S	F	1	2.0	0.44	440	0.54	220.0
85-001	FRESHWATER DRUM		P	M		15	30.0	6.64	4180	5.17	139.3

**No Species:** 16    **Nat. Species:** 15    **Hybrids:** 0    **Total Counted:** 226    **Total Rel. Wt. :** 80804  
**IBI:** 32.0    **MIwb:** 9.0

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM35 River: 11-100 East Fork Little Miami River RM: 1.00 Date: 08/15/2012  
 Time Fished: 2085 Distance: 0.500 Drainge (sq mi): 498.0 Depth: 0  
 Location: Dst. Milford WWTP Lat: 39.15940 Long: -84.28530

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	2.0	0.23	1100	1.01	550.0
20-003	GIZZARD SHAD	O		M		147	294.0	33.18	51400	47.19	174.8
40-004	SMALLMOUTH BUFFALO	I		M	C	5	10.0	1.13	12700	11.66	1270.0
40-005	QUILLBACK CARPSUCKER	O		M	C	5	10.0	1.13	9400	8.63	940.0
40-007	HIGHFIN CARPSUCKER	O		M	C	1	2.0	0.23	1400	1.29	700.0
40-008	SILVER REDHORSE	I	M	S	R	4	8.0	0.90	11800	10.83	1475.0
40-010	GOLDEN REDHORSE	I	M	S	R	21	42.0	4.74	7520	6.90	179.0
40-011	SHORTHEAD REDHORSE	I	M	S	R	1	2.0	0.23	1000	0.92	500.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	5	10.0	1.13	980	0.90	98.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	1	2.0	0.23	160	0.15	80.0
43-001	COMMON CARP	O	T	M	G	1	2.0	0.23	1100	1.01	550.0
43-020	EMERALD SHINER	I		M	N	149	298.0	33.63	318	0.29	1.0
43-032	SPOTFIN SHINER	I		M	N	5	10.0	1.13	74	0.07	7.4
43-034	SAND SHINER	I	M	M	N	7	14.0	1.58	28	0.03	2.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	9	18.0	2.03	40	0.04	2.2
43-044	CENTRAL STONEROLLER	H		N	N	15	30.0	3.39	120	0.11	4.0
47-002	CHANNEL CATFISH			C	F	1	2.0	0.23	1600	1.47	800.0
47-008	STONECAT MADTOM	I	I	C		1	2.0	0.23	20	0.02	10.0
74-001	WHITE BASS	P		M	F	3	6.0	0.68	60	0.06	10.0
77-002	BLACK CRAPPIE	I		C	S	1	2.0	0.23	60	0.06	30.0
77-004	SMALLMOUTH BASS	C	M	C	F	1	2.0	0.23	320	0.29	160.0
77-005	SPOTTED BASS	C		C	F	12	24.0	2.71	520	0.48	21.6
77-006	LARGEMOUTH BASS	C		C	F	1	2.0	0.23	300	0.28	150.0
77-008	GREEN SUNFISH	I	T	C	S	2	4.0	0.45	60	0.06	15.0
77-009	BLUEGILL SUNFISH	I	P	C	S	1	2.0	0.23	60	0.06	30.0
77-011	LONGEAR SUNFISH	I	M	C	S	10	20.0	2.26	280	0.26	14.0
80-001	SAUGER	P		S	F	1	2.0	0.23	500	0.46	250.0
80-007	SLENDERHEAD DARTER	I	R	S	D	4	8.0	0.90	32	0.03	4.0
80-011	LOGPERCH	I	M	S	D	1	2.0	0.23	80	0.07	40.0
80-015	GREENSIDE DARTER	I	M	S	D	5	10.0	1.13	20	0.02	2.0
80-016	BANDED DARTER	I	I	S	D	11	22.0	2.48	20	0.02	0.9
80-026	SAUGER X WALLEYE	P			E	1	2.0	0.23	400	0.37	200.0
85-001	FRESHWATER DRUM		P	M		10	20.0	2.26	5460	5.01	273.0

**No Species:** 32    **Nat. Species:** 31    **Hybrids:** 1    **Total Counted:** 443    **Total Rel. Wt. :** 108932

**IBI:** 40.0    **MIwb:** 9.6

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM35 River: 11-100 East Fork Little Miami River RM: 1.00 Date: 10/02/2012  
 Time Fished: 1988 Distance: 0.500 Drainge (sq mi): 498.0 Depth: 0  
 Location: Dst. Milford WWTP Lat: 39.15940 Long: -84.28530

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		4	8.0	1.10	2180	1.43	272.5
20-003	GIZZARD SHAD	O		M		255	510.0	70.25	39220	25.69	76.9
40-004	SMALLMOUTH BUFFALO	I		M	C	13	26.0	3.58	34200	22.40	1315.3
40-005	QUILLBACK CARPSUCKER	O		M	C	3	6.0	0.83	4900	3.21	816.6
40-006	RIVER CARPSUCKER	O		M	C	2	4.0	0.55	3500	2.29	875.0
40-007	HIGHFIN CARPSUCKER	O		M	C	3	6.0	0.83	3300	2.16	550.0
40-008	SILVER REDHORSE	I	M	S	R	5	10.0	1.38	18500	12.12	1850.0
40-010	GOLDEN REDHORSE	I	M	S	R	6	12.0	1.65	3760	2.46	313.3
40-013	RIVER REDHORSE	I	I	S	R	1	2.0	0.28	4400	2.88	2200.0
43-001	COMMON CARP	O	T	M	G	3	6.0	0.83	16700	10.94	2783.3
43-020	EMERALD SHINER	I		M	N	21	42.0	5.79	44	0.03	1.0
43-034	SAND SHINER	I	M	M	N	1	2.0	0.28	4	0.00	2.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	6	12.0	1.65	24	0.02	2.0
47-002	CHANNEL CATFISH			C	F	7	14.0	1.93	16700	10.94	1192.8
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	0.28	400	0.26	200.0
74-001	WHITE BASS	P		M	F	1	2.0	0.28	20	0.01	10.0
77-001	WHITE CRAPPIE	I		C	S	1	2.0	0.28	200	0.13	100.0
77-004	SMALLMOUTH BASS	C	M	C	F	1	2.0	0.28	60	0.04	30.0
77-005	SPOTTED BASS	C		C	F	4	8.0	1.10	280	0.18	35.0
77-008	GREEN SUNFISH	I	T	C	S	1	2.0	0.28	60	0.04	30.0
77-009	BLUEGILL SUNFISH	I	P	C	S	1	2.0	0.28	80	0.05	40.0
77-011	LONGEAR SUNFISH	I	M	C	S	8	16.0	2.20	114	0.07	7.1
80-001	SAUGER	P		S	F	2	4.0	0.55	1000	0.65	250.0
80-026	SAUGER X WALLEYE	P			E	1	2.0	0.28	500	0.33	250.0
85-001	FRESHWATER DRUM		P	M		12	24.0	3.31	2540	1.66	105.8

**No Species:** 24    **Nat. Species:** 23    **Hybrids:** 1    **Total Counted:** 363    **Total Rel. Wt. :** 152686  
**IBI:** 36.0    **MIwb:** 9.2

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM34 River: 11-100 East Fork Little Miami River RM: 2.00 Date: 08/15/2012  
 Time Fished: 2251 Distance: 0.500 Drainge (sq mi): 494.0 Depth: 0  
 Location: E. FK. LMR S OF MILFORD - 0.7 MI. DST I-275 Lat: 39.15472 Long: 84.27833

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		2	4.0	0.63	3300	1.75	825.0
20-003	GIZZARD SHAD	O		M		103	206.0	32.70	17820	9.45	86.5
40-004	SMALLMOUTH BUFFALO	I		M	C	34	68.0	10.79	84300	44.70	1239.7
40-005	QUILLBACK CARPSUCKER	O		M	C	6	12.0	1.90	11400	6.04	950.0
40-006	RIVER CARPSUCKER	O		M	C	3	6.0	0.95	4900	2.60	816.6
40-008	SILVER REDHORSE	I	M	S	R	6	12.0	1.90	18100	9.60	1508.3
40-009	BLACK REDHORSE	I	I	S	R	1	2.0	0.32	200	0.11	100.0
40-010	GOLDEN REDHORSE	I	M	S	R	31	62.0	9.84	12760	6.77	205.8
40-015	NORTHERN HOG SUCKER	I	M	S	R	10	20.0	3.17	3220	1.71	161.0
43-001	COMMON CARP	O	T	M	G	6	12.0	1.90	17800	9.44	1483.3
43-020	EMERALD SHINER	I		M	N	52	104.0	16.51	180	0.10	1.7
43-032	SPOTFIN SHINER	I		M	N	6	12.0	1.90	60	0.03	5.0
47-002	CHANNEL CATFISH			C	F	6	12.0	1.90	5920	3.14	493.3
74-001	WHITE BASS	P		M	F	2	4.0	0.63	100	0.05	25.0
77-001	WHITE CRAPPIE	I		C	S	1	2.0	0.32	20	0.01	10.0
77-002	BLACK CRAPPIE	I		C	S	2	4.0	0.63	100	0.05	25.0
77-004	SMALLMOUTH BASS	C	M	C	F	9	18.0	2.86	576	0.31	32.0
77-005	SPOTTED BASS	C		C	F	1	2.0	0.32	100	0.05	50.0
77-008	GREEN SUNFISH	I	T	C	S	1	2.0	0.32	20	0.01	10.0
77-009	BLUEGILL SUNFISH	I	P	C	S	5	10.0	1.59	320	0.17	32.0
77-011	LONGEAR SUNFISH	I	M	C	S	18	36.0	5.71	590	0.31	16.3
85-001	FRESHWATER DRUM		P	M		10	20.0	3.17	6820	3.62	341.0

**No Species:** 22    **Nat. Species:** 21    **Hybrids:** 0    **Total Counted:** 315    **Total Rel. Wt. :** 188606

**IBI:** 38.0    **MIwb:** 9.9

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM34 River: 11-100 East Fork Little Miami River RM: 2.00 Date: 10/02/2012  
 Time Fished: 2205 Distance: 0.500 Drainge (sq mi): 494.0 Depth: 0  
 Location: E. FK. LMR S OF MILFORD - 0.7 MI. DST I-275 Lat: 39.15472 Long: 84.27833

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-001	SKIPJACK HERRING	P		M		1	2.0	0.38	160	0.15	80.0
20-003	GIZZARD SHAD	O		M		105	210.0	40.38	16240	15.56	77.3
40-004	SMALLMOUTH BUFFALO	I		M	C	14	28.0	5.38	31800	30.48	1135.7
40-005	QUILLBACK CARPSUCKER	O		M	C	6	12.0	2.31	9700	9.30	808.3
40-006	RIVER CARPSUCKER	O		M	C	1	2.0	0.38	2200	2.11	1100.0
40-008	SILVER REDHORSE	I	M	S	R	2	4.0	0.77	3420	3.28	855.0
40-010	GOLDEN REDHORSE	I	M	S	R	25	50.0	9.62	17740	17.00	354.8
40-015	NORTHERN HOG SUCKER	I	M	S	R	1	2.0	0.38	240	0.23	120.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	1	2.0	0.38	660	0.63	330.0
43-001	COMMON CARP	O	T	M	G	5	10.0	1.92	17410	16.68	1741.0
43-020	EMERALD SHINER	I		M	N	65	130.0	25.00	154	0.15	1.1
43-043	BLUNTNOSE MINNOW	O	T	C	N	1	2.0	0.38	12	0.01	6.0
47-002	CHANNEL CATFISH			C	F	3	6.0	1.15	2240	2.15	373.3
70-001	BROOK SILVERSIDE	I	M	M		1	2.0	0.38	4	0.00	2.0
74-001	WHITE BASS	P		M	F	1	2.0	0.38	120	0.12	60.0
77-004	SMALLMOUTH BASS	C	M	C	F	1	2.0	0.38	320	0.31	160.0
77-006	LARGEMOUTH BASS	C		C	F	9	18.0	3.46	830	0.80	46.1
77-011	LONGEAR SUNFISH	I	M	C	S	7	14.0	2.69	136	0.13	9.7
85-001	FRESHWATER DRUM		P	M		11	22.0	4.23	960	0.92	43.6

**No Species:** 19    **Nat. Species:** 18    **Hybrids:** 0    **Total Counted:** 260    **Total Rel. Wt. :** 104346  
**IBI:** 32.0    **MIwb:** 9.1

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM32 River: 11-100 East Fork Little Miami River RM: 4.30 Date: 08/16/2012  
 Time Fished: 2055 Distance: 0.200 Drainge (sq mi): 491.0 Depth: 0  
 Location: E. FK. LMR AT MILFORD MHP ADJ U.S. RT. 50 Lat: 39.15472 Long: 84.25889

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-001	SKIPJACK HERRING	P		M		2	3.0	0.78	97	0.14	32.5
20-003	GIZZARD SHAD	O		M		21	31.5	8.14	1815	2.68	57.6
40-004	SMALLMOUTH BUFFALO	I		M	C	3	4.5	1.16	8100	11.94	1800.0
40-008	SILVER REDHORSE	I	M	S	R	3	4.5	1.16	5850	8.63	1300.0
40-010	GOLDEN REDHORSE	I	M	S	R	31	46.5	12.02	10338	15.25	222.3
40-015	NORTHERN HOG SUCKER	I	M	S	R	1	1.5	0.39	225	0.33	150.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	1	1.5	0.39	585	0.86	390.0
43-001	COMMON CARP	O	T	M	G	3	4.5	1.16	10425	15.37	2316.6
43-020	EMERALD SHINER	I		M	N	112	168.0	43.41	285	0.42	1.7
43-032	SPOTFIN SHINER	I		M	N	4	6.0	1.55	33	0.05	5.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	7	10.5	2.71	22	0.03	2.1
47-002	CHANNEL CATFISH			C	F	5	7.5	1.94	480	0.71	64.0
47-007	FLATHEAD CATFISH	P		C	F	3	4.5	1.16	25080	36.98	5573.3
74-002	STRIPED BASS	P		M	E	1	1.5	0.39	750	1.11	500.0
77-002	BLACK CRAPPIE	I		C	S	1	1.5	0.39	75	0.11	50.0
77-004	SMALLMOUTH BASS	C	M	C	F	7	10.5	2.71	345	0.51	32.8
77-005	SPOTTED BASS	C		C	F	16	24.0	6.20	795	1.17	33.1
77-006	LARGEMOUTH BASS	C		C	F	5	7.5	1.94	180	0.27	24.0
77-008	GREEN SUNFISH	I	T	C	S	1	1.5	0.39	15	0.02	10.0
77-009	BLUEGILL SUNFISH	I	P	C	S	5	7.5	1.94	120	0.18	16.0
77-011	LONGEAR SUNFISH	I	M	C	S	17	25.5	6.59	438	0.65	17.1
80-007	SLENDERHEAD DARTER	I	R	S	D	1	1.5	0.39	3	0.00	2.0
80-026	SAUGER X WALLEYE	P			E	1	1.5	0.39	90	0.13	60.0
85-001	FRESHWATER DRUM		P	M		7	10.5	2.71	1665	2.46	158.5

**No Species:** 23    **Nat. Species:** 21    **Hybrids:** 1    **Total Counted:** 258    **Total Rel. Wt. :** 67812  
**IBI:** 42.0    **MIwb:** 8.9



# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM32 River: 11-100 East Fork Little Miami River RM: 4.30 Date: 10/04/2012

Time Fished: 2242 Distance: 0.200 Drainge (sq mi): 491.0 Depth: 0

Location: E. FK. LMR AT MILFORD MHP ADJ U.S. RT. 50 Lat: 39.15472 Long: 84.25889

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		7	10.5	1.04	1260	7.03	120.0
40-004	SMALLMOUTH BUFFALO	I		M	C	2	3.0	0.30	4650	25.95	1550.0
40-007	HIGHFIN CARPSUCKER	O		M	C	4	6.0	0.60	2595	14.48	432.5
40-010	GOLDEN REDHORSE	I	M	S	R	3	4.5	0.45	210	1.17	46.6
40-015	NORTHERN HOG SUCKER	I	M	S	R	2	3.0	0.30	270	1.51	90.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	1	1.5	0.15	180	1.00	120.0
43-020	EMERALD SHINER	I		M	N	432	648.0	64.29	844	4.71	1.3
43-032	SPOTFIN SHINER	I		M	N	5	7.5	0.74	22	0.13	3.0
43-034	SAND SHINER	I	M	M	N	31	46.5	4.61	43	0.24	0.9
43-035	MIMIC SHINER	I	I	M	N	7	10.5	1.04	9	0.05	0.8
43-039	SILVERJAW MINNOW	I		M	N	1	1.5	0.15	4	0.03	3.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	83	124.5	12.35	171	0.95	1.3
47-002	CHANNEL CATFISH			C	F	1	1.5	0.15	1875	10.46	1250.0
77-004	SMALLMOUTH BASS	C	M	C	F	4	6.0	0.60	180	1.00	30.0
77-005	SPOTTED BASS	C		C	F	20	30.0	2.98	142	0.80	4.7
77-006	LARGEMOUTH BASS	C		C	F	1	1.5	0.15	105	0.59	70.0
77-009	BLUEGILL SUNFISH	I	P	C	S	3	4.5	0.45	21	0.12	4.6
77-011	LONGEAR SUNFISH	I	M	C	S	59	88.5	8.78	651	3.63	7.3
77-012	REDEAR SUNFISH	I		C	E	1	1.5	0.15	150	0.84	100.0
80-011	LOGPERCH	I	M	S	D	2	3.0	0.30	75	0.42	25.0
85-001	FRESHWATER DRUM		P	M		3	4.5	0.45	4462	24.90	991.6

**No Species:** 21      **Nat. Species:** 20      **Hybrids:** 0      **Total Counted:** 672      **Total Rel. Wt. :** 17922

**IBI:** 40.0      **MIwb:** 8.3

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM31 River: 11-100 East Fork Little Miami River RM: 5.60 Date: 08/16/2012  
 Time Fished: 2014 Distance: 0.200 Drainge (sq mi): 485.0 Depth: 0  
 Location: E. FK. LMR ADJ U.S. RT. 50 DST WOLFPEN RUN Lat: 39.14278 Long: 84.25000

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	1.5	0.62	1650	2.33	1100.0
20-003	GIZZARD SHAD	O		M		29	43.5	17.90	5730	8.08	131.7
40-004	SMALLMOUTH BUFFALO	I		M	C	15	22.5	9.26	27000	38.05	1200.0
40-005	QUILLBACK CARPSUCKER	O		M	C	2	3.0	1.23	1725	2.43	575.0
40-007	HIGHFIN CARPSUCKER	O		M	C	1	1.5	0.62	900	1.27	600.0
40-008	SILVER REDHORSE	I	M	S	R	2	3.0	1.23	5175	7.29	1725.0
40-010	GOLDEN REDHORSE	I	M	S	R	10	15.0	6.17	3990	5.62	266.0
40-011	SHORTHEAD REDHORSE	I	M	S	R	7	10.5	4.32	1200	1.69	114.2
40-013	RIVER REDHORSE	I	I	S	R	4	6.0	2.47	7500	10.57	1250.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	2	3.0	1.23	540	0.76	180.0
43-001	COMMON CARP	O	T	M	G	3	4.5	1.85	8025	11.31	1783.3
43-020	EMERALD SHINER	I		M	N	19	28.5	11.73	60	0.08	2.1
43-032	SPOTFIN SHINER	I		M	N	2	3.0	1.23	60	0.08	20.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	4	6.0	2.47	60	0.08	10.0
47-002	CHANNEL CATFISH			C	F	2	3.0	1.23	2145	3.02	715.0
74-001	WHITE BASS	P		M	F	6	9.0	3.70	255	0.36	28.3
77-002	BLACK CRAPPIE	I		C	S	1	1.5	0.62	105	0.15	70.0
77-003	ROCK BASS	C		C	S	1	1.5	0.62	60	0.08	40.0
77-004	SMALLMOUTH BASS	C	M	C	F	3	4.5	1.85	1650	2.33	366.6
77-005	SPOTTED BASS	C		C	F	6	9.0	3.70	90	0.13	10.0
77-008	GREEN SUNFISH	I	T	C	S	2	3.0	1.23	150	0.21	50.0
77-009	BLUEGILL SUNFISH	I	P	C	S	13	19.5	8.02	525	0.74	26.9
77-011	LONGEAR SUNFISH	I	M	C	S	20	30.0	12.35	420	0.59	14.0
80-016	BANDED DARTER	I	I	S	D	1	1.5	0.62	3	0.00	2.0
80-022	RAINBOW DARTER	I	M	S	D	1	1.5	0.62	1	0.00	1.0
85-001	FRESHWATER DRUM		P	M		5	7.5	3.09	1935	2.73	258.0

**No Species:** 26    **Nat. Species:** 25    **Hybrids:** 0    **Total Counted:** 162    **Total Rel. Wt. :** 70954  
**IBI:** 42.0    **MIwb:** 9.7

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM31 River: 11-100 East Fork Little Miami River RM: 5.60 Date: 10/04/2012  
 Time Fished: 0 Distance: 0.200 Drainge (sq mi): 485.0 Depth: 0  
 Location: E. FK. LMR ADJ U.S. RT. 50 DST WOLFPEN RUN Lat: 39.14278 Long: 84.25000

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		20	30.0	7.94	3765	13.32	125.5
40-004	SMALLMOUTH BUFFALO	I		M	C	9	13.5	3.57	17700	62.62	1311.1
40-010	GOLDEN REDHORSE	I	M	S	R	8	12.0	3.17	4065	14.38	338.7
40-023	SMALLMOUTH REDHORSE	I	M	S	R	1	1.5	0.40	30	0.11	20.0
43-020	EMERALD SHINER	I		M	N	79	118.5	31.35	273	0.97	2.3
43-032	SPOTFIN SHINER	I		M	N	8	12.0	3.17	42	0.15	3.5
43-034	SAND SHINER	I	M	M	N	5	7.5	1.98	15	0.05	2.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	36	54.0	14.29	120	0.42	2.2
70-001	BROOK SILVERSIDE	I	M	M		3	4.5	1.19	15	0.05	3.3
77-004	SMALLMOUTH BASS	C	M	C	F	6	9.0	2.38	307	1.09	34.1
77-005	SPOTTED BASS	C		C	F	16	24.0	6.35	393	1.39	16.3
77-008	GREEN SUNFISH	I	T	C	S	1	1.5	0.40	30	0.11	20.0
77-009	BLUEGILL SUNFISH	I	P	C	S	1	1.5	0.40	18	0.06	12.0
77-011	LONGEAR SUNFISH	I	M	C	S	53	79.5	21.03	306	1.08	3.8
80-001	SAUGER	P		S	F	2	3.0	0.79	1050	3.71	350.0
80-011	LOGPERCH	I	M	S	D	3	4.5	1.19	90	0.32	20.0
85-001	FRESHWATER DRUM		P	M		1	1.5	0.40	45	0.16	30.0

**No Species:** 17    **Nat. Species:** 17    **Hybrids:** 0    **Total Counted:** 252    **Total Rel. Wt. :** 28264  
**IBI:** 36.0    **MIwb:** 7.8

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM30 River: 11-100 East Fork Little Miami River RM: 9.10 Date: 08/16/2012

Time Fished: 3420 Distance: 0.200 Drainge (sq mi): 380.0 Depth: 0

Location: Lat: 39.11890 Long: -84.21170

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		3	4.5	0.55	2850	6.78	633.3
20-003	GIZZARD SHAD	O		M		20	30.0	3.66	2145	5.10	71.5
40-010	GOLDEN REDHORSE	I	M	S	R	10	15.0	1.83	5130	12.20	342.0
40-011	SHORTHEAD REDHORSE	I	M	S	R	6	9.0	1.10	2655	6.32	295.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	24	36.0	4.40	5025	11.95	139.5
43-020	EMERALD SHINER	I		M	N	97	145.5	17.77	217	0.52	1.4
43-026	COMMON SHINER	I		S	N	8	12.0	1.47	97	0.23	8.1
43-032	SPOTFIN SHINER	I		M	N	113	169.5	20.70	663	1.58	3.9
43-034	SAND SHINER	I	M	M	N	1	1.5	0.18	3	0.01	2.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	18	27.0	3.30	90	0.21	3.3
43-044	CENTRAL STONEROLLER	H		N	N	68	102.0	12.45	1537	3.66	15.0
47-002	CHANNEL CATFISH			C	F	5	7.5	0.92	2559	6.09	341.2
47-007	FLATHEAD CATFISH	P		C	F	2	3.0	0.37	6	0.01	2.0
47-008	STONECAT MADTOM	I	I	C		7	10.5	1.28	90	0.21	8.5
77-003	ROCK BASS	C		C	S	2	3.0	0.37	45	0.11	15.0
77-004	SMALLMOUTH BASS	C	M	C	F	47	70.5	8.61	3150	7.49	44.6
77-008	GREEN SUNFISH	I	T	C	S	1	1.5	0.18	60	0.14	40.0
77-011	LONGEAR SUNFISH	I	M	C	S	25	37.5	4.58	750	1.78	20.0
80-001	SAUGER	P		S	F	1	1.5	0.18	345	0.82	230.0
80-011	LOGPERCH	I	M	S	D	3	4.5	0.55	90	0.21	20.0
80-015	GREENSIDE DARTER	I	M	S	D	52	78.0	9.52	555	1.32	7.1
80-016	BANDED DARTER	I	I	S	D	16	24.0	2.93	54	0.13	2.2
80-022	RAINBOW DARTER	I	M	S	D	3	4.5	0.55	24	0.06	5.3
80-024	FANTAIL DARTER	I		C	D	2	3.0	0.37	6	0.01	2.0
85-001	FRESHWATER DRUM		P	M		12	18.0	2.20	13890	33.04	771.6

**No Species:** 25    **Nat. Species:** 25    **Hybrids:** 0    **Total Counted:** 546    **Total Rel. Wt. :** 42037

**IBI:** 48.0    **MIwb:** 9.8

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM30 River: 11-100 East Fork Little Miami River RM: 9.10 Date: 10/03/2012

Time Fished: 2523 Distance: 0.200 Drainge (sq mi): 380.0 Depth: 0

Location: Lat: 39.11890 Long: -84.21170

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-004	SMALLMOUTH BUFFALO	I		M	C	1	1.5	0.34	1245	8.26	830.0
40-009	BLACK REDHORSE	I	I	S	R	1	1.5	0.34	120	0.80	80.0
40-010	GOLDEN REDHORSE	I	M	S	R	4	6.0	1.36	2130	14.13	355.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	2	3.0	0.68	375	2.49	125.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	6	9.0	2.03	3780	25.08	420.0
43-020	EMERALD SHINER	I		M	N	83	124.5	28.14	310	2.06	2.4
43-025	STRIPED SHINER	I		S	N	1	1.5	0.34	9	0.06	6.0
43-032	SPOTFIN SHINER	I		M	N	80	120.0	27.12	747	4.96	6.2
43-034	SAND SHINER	I	M	M	N	4	6.0	1.36	12	0.08	2.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	24	36.0	8.14	255	1.69	7.0
43-044	CENTRAL STONEROLLER	H		N	N	37	55.5	12.54	843	5.59	15.1
47-002	CHANNEL CATFISH			C	F	1	1.5	0.34	105	0.70	70.0
47-007	FLATHEAD CATFISH	P		C	F	1	1.5	0.34	12	0.08	8.0
47-008	STONECAT MADTOM	I	I	C		2	3.0	0.68	12	0.08	4.0
77-003	ROCK BASS	C		C	S	1	1.5	0.34	30	0.20	20.0
77-004	SMALLMOUTH BASS	C	M	C	F	22	33.0	7.46	1807	11.99	54.7
77-006	LARGEMOUTH BASS	C		C	F	1	1.5	0.34	187	1.24	125.0
77-011	LONGEAR SUNFISH	I	M	C	S	8	12.0	2.71	90	0.60	7.5
80-011	LOGPERCH	I	M	S	D	1	1.5	0.34	30	0.20	20.0
80-015	GREENSIDE DARTER	I	M	S	D	1	1.5	0.34	9	0.06	6.0
80-022	RAINBOW DARTER	I	M	S	D	13	19.5	4.41	54	0.36	2.7
85-001	FRESHWATER DRUM		P	M		1	1.5	0.34	2910	19.31	1940.0

**No Species:** 22    **Nat. Species:** 22    **Hybrids:** 0    **Total Counted:** 295    **Total Rel. Wt. :** 15073

**IBI:** 38.0    **MIwb:** 8.5

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM29 River: 11-100 East Fork Little Miami River RM: 11.00 Date: 08/14/2012  
 Time Fished: 2841 Distance: 0.200 Drainge (sq mi): 376.0 Depth: 0  
 Location: Ust. Pull off @ Patchell Rd & Highway 222 Lat: 39.10540 Long: -84.19194

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	1.5	0.15	45	0.14	30.0
20-003	GIZZARD SHAD	O		M		58	87.0	8.44	9375	29.99	107.7
40-006	RIVER CARPSUCKER	O		M	C	1	1.5	0.15	1230	3.94	820.0
40-010	GOLDEN REDHORSE	I	M	S	R	12	18.0	1.75	3795	12.14	210.8
40-011	SHORTHEAD REDHORSE	I	M	S	R	2	3.0	0.29	2595	8.30	865.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	3	4.5	0.44	330	1.06	73.3
43-001	COMMON CARP	O	T	M	G	2	3.0	0.29	4275	13.68	1425.0
43-020	EMERALD SHINER	I		M	N	322	483.0	46.87	534	1.71	1.1
43-032	SPOTFIN SHINER	I		M	N	6	9.0	0.87	21	0.07	2.3
43-034	SAND SHINER	I	M	M	N	12	18.0	1.75	19	0.06	1.0
43-035	MIMIC SHINER	I	I	M	N	2	3.0	0.29	3	0.01	1.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	79	118.5	11.50	180	0.58	1.5
47-002	CHANNEL CATFISH			C	F	2	3.0	0.29	2259	7.23	753.0
47-007	FLATHEAD CATFISH	P		C	F	1	1.5	0.15	6	0.02	4.0
77-002	BLACK CRAPPIE	I		C	S	4	6.0	0.58	214	0.69	35.7
77-003	ROCK BASS	C		C	S	2	3.0	0.29	270	0.86	90.0
77-004	SMALLMOUTH BASS	C	M	C	F	15	22.5	2.18	1128	3.61	50.1
77-005	SPOTTED BASS	C		C	F	2	3.0	0.29	544	1.74	181.5
77-006	LARGEMOUTH BASS	C		C	F	2	3.0	0.29	6	0.02	2.0
77-008	GREEN SUNFISH	I	T	C	S	1	1.5	0.15	24	0.08	16.0
77-009	BLUEGILL SUNFISH	I	P	C	S	14	21.0	2.04	240	0.77	11.4
77-011	LONGEAR SUNFISH	I	M	C	S	110	165.0	16.01	2310	7.39	14.0
77-021	GREEN SF X LONGEAR SF					1	1.5	0.15	30	0.10	20.0
80-007	SLENDERHEAD DARTER	I	R	S	D	2	3.0	0.29	15	0.05	5.0
80-014	JOHNNY DARTER	I		C	D	1	1.5	0.15	1	0.00	1.0
80-015	GREENSIDE DARTER	I	M	S	D	8	12.0	1.16	75	0.24	6.2
80-016	BANDED DARTER	I	I	S	D	7	10.5	1.02	18	0.06	1.7
80-022	RAINBOW DARTER	I	M	S	D	7	10.5	1.02	15	0.05	1.4
80-024	FANTAIL DARTER	I		C	D	5	7.5	0.73	18	0.06	2.4
85-001	FRESHWATER DRUM		P	M		3	4.5	0.44	1680	5.37	373.3

**No Species:** 29    **Nat. Species:** 28    **Hybrids:** 1    **Total Counted:** 687    **Total Rel. Wt. :** 31257  
**IBI:** 44.0    **MIwb:** 9.2

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM29 River: 11-100 East Fork Little Miami River RM: 11.00 Date: 10/04/2012  
 Time Fished: 2424 Distance: 0.200 Drainge (sq mi): 376.0 Depth: 0  
 Location: Ust. Pull off @ Patchell Rd & Highway 222 Lat: 39.10540 Long: -84.19194

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	1.5	0.24	750	2.07	500.0
20-003	GIZZARD SHAD	O		M		23	34.5	5.53	3585	9.91	103.9
40-010	GOLDEN REDHORSE	I	M	S	R	14	21.0	3.37	5325	14.73	253.5
40-013	RIVER REDHORSE	I	I	S	R	1	1.5	0.24	2250	6.22	1500.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	1	1.5	0.24	210	0.58	140.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	1	1.5	0.24	750	2.07	500.0
43-001	COMMON CARP	O	T	M	G	8	12.0	1.92	20325	56.21	1693.7
43-020	EMERALD SHINER	I		M	N	165	247.5	39.66	322	0.89	1.3
43-032	SPOTFIN SHINER	I		M	N	26	39.0	6.25	105	0.29	2.6
43-034	SAND SHINER	I	M	M	N	14	21.0	3.37	30	0.08	1.4
43-043	BLUNTNOSE MINNOW	O	T	C	N	47	70.5	11.30	124	0.34	1.7
70-001	BROOK SILVERSIDE	I	M	M		5	7.5	1.20	15	0.04	2.0
77-001	WHITE CRAPPIE	I		C	S	1	1.5	0.24	60	0.17	40.0
77-002	BLACK CRAPPIE	I		C	S	1	1.5	0.24	45	0.12	30.0
77-004	SMALLMOUTH BASS	C	M	C	F	15	22.5	3.61	474	1.31	21.0
77-005	SPOTTED BASS	C		C	F	6	9.0	1.44	66	0.18	7.3
77-009	BLUEGILL SUNFISH	I	P	C	S	2	3.0	0.48	22	0.06	7.5
77-011	LONGEAR SUNFISH	I	M	C	S	81	121.5	19.47	1425	3.94	11.7
80-001	SAUGER	P		S	F	1	1.5	0.24	240	0.66	160.0
80-011	LOGPERCH	I	M	S	D	1	1.5	0.24	15	0.04	10.0
80-015	GREENSIDE DARTER	I	M	S	D	1	1.5	0.24	12	0.03	8.0
80-024	FANTAIL DARTER	I		C	D	1	1.5	0.24	6	0.02	4.0

**No Species:** 22    **Nat. Species:** 21    **Hybrids:** 0    **Total Counted:** 416    **Total Rel. Wt. :** 36157

**IBI:** 38.0    **MIwb:** 8.0

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM28 River: 11-100 East Fork Little Miami River RM: 13.20 Date: 08/14/2012

Time Fished: 2612 Distance: 0.200 Drainge (sq mi): 365.0 Depth: 0

Location: Lat: 39.08440 Long: -84.17810

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		2	3.0	0.56	1875	1.85	625.0
20-003	GIZZARD SHAD	O		M		14	21.0	3.94	2460	2.43	117.1
40-004	SMALLMOUTH BUFFALO	I		M	C	7	10.5	1.97	12075	11.94	1150.0
40-006	RIVER CARPSUCKER	O		M	C	5	7.5	1.41	5250	5.19	700.0
40-008	SILVER REDHORSE	I	M	S	R	2	3.0	0.56	2850	2.82	950.0
40-009	BLACK REDHORSE	I	I	S	R	21	31.5	5.92	12975	12.84	411.9
40-010	GOLDEN REDHORSE	I	M	S	R	23	34.5	6.48	16320	16.14	473.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	5	7.5	1.41	846	0.84	112.8
40-023	SMALLMOUTH REDHORSE	I	M	S	R	11	16.5	3.10	3075	3.04	186.3
43-001	COMMON CARP	O	T	M	G	3	4.5	0.85	8280	8.19	1840.0
43-020	EMERALD SHINER	I		M	N	75	112.5	21.13	123	0.12	1.0
43-032	SPOTFIN SHINER	I		M	N	11	16.5	3.10	57	0.06	3.4
43-043	BLUNTNOSE MINNOW	O	T	C	N	14	21.0	3.94	18	0.02	0.8
43-044	CENTRAL STONEROLLER	H		N	N	4	6.0	1.13	21	0.02	3.5
47-002	CHANNEL CATFISH			C	F	17	25.5	4.79	12678	12.54	497.1
47-007	FLATHEAD CATFISH	P		C	F	2	3.0	0.56	2700	2.67	900.0
74-002	STRIPED BASS	P		M	E	1	1.5	0.28	330	0.33	220.0
77-001	WHITE CRAPPIE	I		C	S	1	1.5	0.28	45	0.04	30.0
77-002	BLACK CRAPPIE	I		C	S	1	1.5	0.28	60	0.06	40.0
77-003	ROCK BASS	C		C	S	4	6.0	1.13	370	0.37	61.7
77-004	SMALLMOUTH BASS	C	M	C	F	14	21.0	3.94	3420	3.38	162.8
77-006	LARGEMOUTH BASS	C		C	F	1	1.5	0.28	3	0.00	2.0
77-008	GREEN SUNFISH	I	T	C	S	7	10.5	1.97	225	0.22	21.4
77-009	BLUEGILL SUNFISH	I	P	C	S	8	12.0	2.25	123	0.12	10.2
77-011	LONGEAR SUNFISH	I	M	C	S	67	100.5	18.87	1887	1.87	18.7
77-021	GREEN SF X LONGEAR SF					1	1.5	0.28	30	0.03	20.0
80-001	SAUGER	P		S	F	3	4.5	0.85	780	0.77	173.3
80-011	LOGPERCH	I	M	S	D	1	1.5	0.28	18	0.02	12.0
80-015	GREENSIDE DARTER	I	M	S	D	7	10.5	1.97	39	0.04	3.7
80-016	BANDED DARTER	I	I	S	D	9	13.5	2.54	33	0.03	2.4
80-026	SAUGER X WALLEYE	P			E	1	1.5	0.28	450	0.45	300.0
85-001	FRESHWATER DRUM		P	M		13	19.5	3.66	11673	11.55	598.6

**No Species:** 30    **Nat. Species:** 28    **Hybrids:** 2    **Total Counted:** 355    **Total Rel. Wt. :** 101089

**IBI:** 46.0    **MIwb:** 10.5



# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM28 River: 11-100 East Fork Little Miami River RM: 13.20 Date: 10/04/2012  
 Time Fished: 1872 Distance: 0.200 Drainge (sq mi): 365.0 Depth: 0  
 Location: Lat: 39.08440 Long: -84.17810

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	1.5	0.47	675	1.98	450.0
20-003	GIZZARD SHAD	O		M		9	13.5	4.25	1110	3.25	82.2
40-004	SMALLMOUTH BUFFALO	I		M	C	1	1.5	0.47	2850	8.34	1900.0
40-005	QUILLBACK CARPSUCKER	O		M	C	1	1.5	0.47	1350	3.95	900.0
40-006	RIVER CARPSUCKER	O		M	C	2	3.0	0.94	2475	7.24	825.0
40-008	SILVER REDHORSE	I	M	S	R	2	3.0	0.94	5100	14.92	1700.0
40-009	BLACK REDHORSE	I	I	S	R	1	1.5	0.47	600	1.76	400.0
40-010	GOLDEN REDHORSE	I	M	S	R	12	18.0	5.66	11100	32.48	616.6
40-015	NORTHERN HOG SUCKER	I	M	S	R	4	6.0	1.89	405	1.19	67.5
40-023	SMALLMOUTH REDHORSE	I	M	S	R	1	1.5	0.47	675	1.98	450.0
43-001	COMMON CARP	O	T	M	G	1	1.5	0.47	4425	12.95	2950.0
43-020	EMERALD SHINER	I		M	N	49	73.5	23.11	186	0.54	2.5
43-032	SPOTFIN SHINER	I		M	N	19	28.5	8.96	76	0.22	2.6
43-034	SAND SHINER	I	M	M	N	1	1.5	0.47	4	0.01	3.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	31	46.5	14.62	129	0.38	2.7
43-044	CENTRAL STONEROLLER	H		N	N	8	12.0	3.77	219	0.64	18.2
70-001	BROOK SILVERSIDE	I	M	M		1	1.5	0.47	3	0.01	2.0
77-002	BLACK CRAPPIE	I		C	S	2	3.0	0.94	75	0.22	25.0
77-003	ROCK BASS	C		C	S	2	3.0	0.94	165	0.48	55.0
77-004	SMALLMOUTH BASS	C	M	C	F	9	13.5	4.25	1335	3.91	98.8
77-008	GREEN SUNFISH	I	T	C	S	1	1.5	0.47	75	0.22	50.0
77-011	LONGEAR SUNFISH	I	M	C	S	47	70.5	22.17	708	2.07	10.0
80-001	SAUGER	P		S	F	1	1.5	0.47	375	1.10	250.0
80-011	LOGPERCH	I	M	S	D	2	3.0	0.94	45	0.13	15.0
80-015	GREENSIDE DARTER	I	M	S	D	1	1.5	0.47	4	0.01	3.0
80-016	BANDED DARTER	I	I	S	D	2	3.0	0.94	4	0.01	1.5
80-022	RAINBOW DARTER	I	M	S	D	1	1.5	0.47	3	0.01	2.0

**No Species:** 27      **Nat. Species:** 26      **Hybrids:** 0      **Total Counted:** 212      **Total Rel. Wt. :** 34173  
**IBI:** 44.0      **MIwb:** 9.1

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM27 River: 11-100 East Fork Little Miami River RM: 13.70 Date: 08/14/2012

Time Fished: 2221 Distance: 0.200 Drainge (sq mi): 364.0 Depth: 0

Location: Lat: 39.08000 Long: -84.17720

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		4	6.0	0.70	720	2.21	120.0
40-009	BLACK REDHORSE	I	I	S	R	13	19.5	2.26	4965	15.23	254.6
40-015	NORTHERN HOG SUCKER	I	M	S	R	9	13.5	1.57	660	2.02	48.8
43-001	COMMON CARP	O	T	M	G	5	7.5	0.87	16800	51.54	2240.0
43-020	EMERALD SHINER	I		M	N	148	222.0	25.74	327	1.00	1.4
43-032	SPOTFIN SHINER	I		M	N	19	28.5	3.30	111	0.34	3.8
43-034	SAND SHINER	I	M	M	N	17	25.5	2.96	30	0.09	1.1
43-035	MIMIC SHINER	I	I	M	N	17	25.5	2.96	30	0.09	1.1
43-043	BLUNTNOSE MINNOW	O	T	C	N	67	100.5	11.65	88	0.27	0.8
43-044	CENTRAL STONEROLLER	H		N	N	18	27.0	3.13	330	1.01	12.2
47-002	CHANNEL CATFISH			C	F	3	4.5	0.52	495	1.52	110.0
70-001	BROOK SILVERSIDE	I	M	M		2	3.0	0.35	7	0.02	2.5
77-002	BLACK CRAPPIE	I		C	S	2	3.0	0.35	36	0.11	12.0
77-003	ROCK BASS	C		C	S	2	3.0	0.35	127	0.39	42.5
77-004	SMALLMOUTH BASS	C	M	C	F	12	18.0	2.09	405	1.24	22.5
77-006	LARGEMOUTH BASS	C		C	F	1	1.5	0.17	720	2.21	480.0
77-008	GREEN SUNFISH	I	T	C	S	1	1.5	0.17	90	0.28	60.0
77-009	BLUEGILL SUNFISH	I	P	C	S	6	9.0	1.04	75	0.23	8.3
77-011	LONGEAR SUNFISH	I	M	C	S	190	285.0	33.04	1344	4.12	4.7
77-015	GREEN SF X BLUEGILL SF					1	1.5	0.17	18	0.06	12.0
80-007	SLENDERHEAD DARTER	I	R	S	D	2	3.0	0.35	9	0.03	3.0
80-011	LOGPERCH	I	M	S	D	14	21.0	2.43	279	0.86	13.2
80-015	GREENSIDE DARTER	I	M	S	D	8	12.0	1.39	75	0.23	6.2
80-016	BANDED DARTER	I	I	S	D	5	7.5	0.87	30	0.09	4.0
80-022	RAINBOW DARTER	I	M	S	D	6	9.0	1.04	24	0.07	2.6
85-001	FRESHWATER DRUM		P	M		3	4.5	0.52	4800	14.73	1066.6

**No Species:** 25    **Nat. Species:** 24    **Hybrids:** 1    **Total Counted:** 575    **Total Rel. Wt. :** 32596

**IBI:** 46.0    **MIwb:** 8.5

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM27 River: 11-100 East Fork Little Miami River RM: 13.70 Date: 10/01/2012

Time Fished: 2472 Distance: 0.200 Drainge (sq mi): 364.0 Depth: 0

Location: Lat: 39.08000 Long: -84.17720

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		3	4.5	0.85	735	2.47	163.3
40-009	BLACK REDHORSE	I	I	S	R	1	1.5	0.28	345	1.16	230.0
40-010	GOLDEN REDHORSE	I	M	S	R	12	18.0	3.42	6000	20.15	333.3
40-015	NORTHERN HOG SUCKER	I	M	S	R	3	4.5	0.85	240	0.81	53.3
40-023	SMALLMOUTH REDHORSE	I	M	S	R	3	4.5	0.85	8145	27.35	1810.0
43-001	COMMON CARP	O	T	M	G	2	3.0	0.57	7500	25.19	2500.0
43-020	EMERALD SHINER	I		M	N	27	40.5	7.69	108	0.36	2.6
43-032	SPOTFIN SHINER	I		M	N	37	55.5	10.54	138	0.46	2.4
43-034	SAND SHINER	I	M	M	N	5	7.5	1.42	12	0.04	1.6
43-043	BLUNTNOSE MINNOW	O	T	C	N	99	148.5	28.21	288	0.97	1.9
43-044	CENTRAL STONEROLLER	H		N	N	22	33.0	6.27	465	1.56	14.0
47-002	CHANNEL CATFISH			C	F	10	15.0	2.85	2505	8.41	167.0
70-001	BROOK SILVERSIDE	I	M	M		5	7.5	1.42	12	0.04	1.6
77-002	BLACK CRAPPIE	I		C	S	2	3.0	0.57	127	0.43	42.5
77-003	ROCK BASS	C		C	S	7	10.5	1.99	930	3.12	88.5
77-004	SMALLMOUTH BASS	C	M	C	F	8	12.0	2.28	480	1.61	40.0
77-006	LARGEMOUTH BASS	C		C	F	2	3.0	0.57	6	0.02	2.0
77-008	GREEN SUNFISH	I	T	C	S	1	1.5	0.28	90	0.30	60.0
77-009	BLUEGILL SUNFISH	I	P	C	S	11	16.5	3.13	405	1.36	24.5
77-011	LONGEAR SUNFISH	I	M	C	S	74	111.0	21.08	990	3.32	8.9
77-017	LONGEAR SF X BLUEGILL SF					3	4.5	0.85	105	0.35	23.3
80-007	SLENDERHEAD DARTER	I	R	S	D	1	1.5	0.28	12	0.04	8.0
80-011	LOGPERCH	I	M	S	D	5	7.5	1.42	108	0.36	14.4
80-015	GREENSIDE DARTER	I	M	S	D	1	1.5	0.28	15	0.05	10.0
80-016	BANDED DARTER	I	I	S	D	2	3.0	0.57	6	0.02	2.0
80-022	RAINBOW DARTER	I	M	S	D	5	7.5	1.42	12	0.04	1.6

**No Species:** 25    **Nat. Species:** 24    **Hybrids:** 1    **Total Counted:** 351    **Total Rel. Wt. :** 29779  
**IBI:** 40.0    **MIwb:** 8.8

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM26 River: 11-100 East Fork Little Miami River RM: 15.00 Date: 08/13/2012

Time Fished: 3457 Distance: 0.200 Drainge (sq mi): 352.0 Depth: 0

Location: Ust. Hwy 222 Lat: 39.05969 Long: -84.17861

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-009	BLACK REDHORSE	I	I	S	R	2	3.0	0.36	600	3.80	200.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	28	42.0	5.10	2925	18.50	69.6
43-020	EMERALD SHINER	I		M	N	108	162.0	19.67	195	1.23	1.2
43-026	COMMON SHINER	I		S	N	9	13.5	1.64	225	1.42	16.6
43-032	SPOTFIN SHINER	I		M	N	13	19.5	2.37	114	0.72	5.8
43-034	SAND SHINER	I	M	M	N	2	3.0	0.36	6	0.04	2.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	24	36.0	4.37	75	0.47	2.0
43-044	CENTRAL STONEROLLER	H		N	N	41	61.5	7.47	1029	6.51	16.7
47-007	FLATHEAD CATFISH	P		C	F	1	1.5	0.18	30	0.19	20.0
47-008	STONECAT MADTOM	I	I	C		2	3.0	0.36	49	0.31	16.5
77-002	BLACK CRAPPIE	I		C	S	3	4.5	0.55	105	0.66	23.3
77-003	ROCK BASS	C		C	S	22	33.0	4.01	3720	23.53	112.7
77-004	SMALLMOUTH BASS	C	M	C	F	33	49.5	6.01	399	2.52	8.0
77-005	SPOTTED BASS	C		C	F	1	1.5	0.18	75	0.47	50.0
77-008	GREEN SUNFISH	I	T	C	S	5	7.5	0.91	255	1.61	34.0
77-009	BLUEGILL SUNFISH	I	P	C	S	11	16.5	2.00	255	1.61	15.4
77-011	LONGEAR SUNFISH	I	M	C	S	175	262.5	31.88	5152	32.59	19.6
80-011	LOGPERCH	I	M	S	D	2	3.0	0.36	120	0.76	40.0
80-014	JOHNNY DARTER	I		C	D	2	3.0	0.36	4	0.03	1.5
80-015	GREENSIDE DARTER	I	M	S	D	23	34.5	4.19	321	2.03	9.3
80-016	BANDED DARTER	I	I	S	D	10	15.0	1.82	30	0.19	2.0
80-022	RAINBOW DARTER	I	M	S	D	24	36.0	4.37	76	0.48	2.1
80-024	FANTAIL DARTER	I		C	D	8	12.0	1.46	48	0.30	4.0

**No Species:** 23    **Nat. Species:** 23    **Hybrids:** 0    **Total Counted:** 549    **Total Rel. Wt. :** 15810

**IBI:** 50.0    **MIwb:** 9.0

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM26 River: 11-100 East Fork Little Miami River RM: 15.00 Date: 10/01/2012  
 Time Fished: 3042 Distance: 0.200 Drainge (sq mi): 352.0 Depth: 0  
 Location: Ust. Hwy 222 Lat: 39.05969 Long: -84.17861

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-009	BLACK REDHORSE	I	I	S	R	4	6.0	1.06	405	3.08	67.5
40-010	GOLDEN REDHORSE	I	M	S	R	3	4.5	0.80	390	2.97	86.6
40-015	NORTHERN HOG SUCKER	I	M	S	R	35	52.5	9.28	3495	26.62	66.5
43-013	CREEK CHUB	G	T	N	N	2	3.0	0.53	36	0.27	12.0
43-020	EMERALD SHINER	I		M	N	45	67.5	11.94	195	1.49	2.8
43-025	STRIPED SHINER	I		S	N	12	18.0	3.18	165	1.26	9.1
43-032	SPOTFIN SHINER	I		M	N	8	12.0	2.12	45	0.34	3.7
43-034	SAND SHINER	I	M	M	N	11	16.5	2.92	36	0.27	2.1
43-043	BLUNTNOSE MINNOW	O	T	C	N	45	67.5	11.94	135	1.03	2.0
43-044	CENTRAL STONEROLLER	H		N	N	13	19.5	3.45	108	0.82	5.5
77-002	BLACK CRAPPIE	I		C	S	1	1.5	0.27	15	0.11	10.0
77-003	ROCK BASS	C		C	S	10	15.0	2.65	1590	12.11	106.0
77-004	SMALLMOUTH BASS	C	M	C	F	27	40.5	7.16	2269	17.29	56.0
77-006	LARGEMOUTH BASS	C		C	F	1	1.5	0.27	60	0.46	40.0
77-008	GREEN SUNFISH	I	T	C	S	8	12.0	2.12	315	2.40	26.2
77-009	BLUEGILL SUNFISH	I	P	C	S	4	6.0	1.06	105	0.80	17.5
77-011	LONGEAR SUNFISH	I	M	C	S	101	151.5	26.79	3595	27.38	23.7
80-011	LOGPERCH	I	M	S	D	3	4.5	0.80	61	0.47	13.6
80-015	GREENSIDE DARTER	I	M	S	D	7	10.5	1.86	33	0.25	3.1
80-016	BANDED DARTER	I	I	S	D	13	19.5	3.45	19	0.15	1.0
80-022	RAINBOW DARTER	I	M	S	D	15	22.5	3.98	42	0.32	1.8
80-024	FANTAIL DARTER	I		C	D	9	13.5	2.39	13	0.10	1.0

**No Species:** 22    **Nat. Species:** 22    **Hybrids:** 0    **Total Counted:** 377    **Total Rel. Wt. :** 13129

**IBI:** 44.0    **MIwb:** 8.7

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM25 River: 11-100 East Fork Little Miami River RM: 19.50 Date: 08/13/2012

Time Fished: 3499 Distance: 0.150 Drainge (sq mi): 344.0 Depth: 0

Location: Dst. E. Fork Lake @ end of Elklick Rd. Lat: 39.03286 Long: -84.15144

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-009	BLACK REDHORSE	I	I	S	R	25	50.0	4.39	23060	42.46	461.2
40-010	GOLDEN REDHORSE	I	M	S	R	6	12.0	1.05	6900	12.70	575.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	9	18.0	1.58	3960	7.29	220.0
43-020	EMERALD SHINER	I		M	N	135	270.0	23.68	620	1.14	2.3
43-025	STRIPED SHINER	I		S	N	4	8.0	0.70	170	0.31	21.2
43-031	STEELCOLOR SHINER	I	P	M	N	5	10.0	0.88	164	0.30	16.4
43-032	SPOTFIN SHINER	I		M	N	61	122.0	10.70	1102	2.03	9.0
43-034	SAND SHINER	I	M	M	N	3	6.0	0.53	12	0.02	2.0
43-035	MIMIC SHINER	I	I	M	N	3	6.0	0.53	8	0.01	1.3
43-043	BLUNTNOSE MINNOW	O	T	C	N	48	96.0	8.42	328	0.60	3.4
43-044	CENTRAL STONEROLLER	H		N	N	90	180.0	15.79	4736	8.72	26.3
47-002	CHANNEL CATFISH			C	F	9	18.0	1.58	1940	3.57	107.7
77-001	WHITE CRAPPIE	I		C	S	1	2.0	0.18	12	0.02	6.0
77-002	BLACK CRAPPIE	I		C	S	4	8.0	0.70	180	0.33	22.5
77-003	ROCK BASS	C		C	S	18	36.0	3.16	3088	5.69	85.7
77-004	SMALLMOUTH BASS	C	M	C	F	39	78.0	6.84	3870	7.13	49.6
77-005	SPOTTED BASS	C		C	F	1	2.0	0.18	70	0.13	35.0
77-008	GREEN SUNFISH	I	T	C	S	6	12.0	1.05	228	0.42	19.0
77-009	BLUEGILL SUNFISH	I	P	C	S	1	2.0	0.18	6	0.01	3.0
77-011	LONGEAR SUNFISH	I	M	C	S	62	124.0	10.88	2980	5.49	24.0
80-011	LOGPERCH	I	M	S	D	3	6.0	0.53	220	0.41	36.6
80-015	GREENSIDE DARTER	I	M	S	D	26	52.0	4.56	578	1.06	11.1
80-016	BANDED DARTER	I	I	S	D	4	8.0	0.70	22	0.04	2.7
80-022	RAINBOW DARTER	I	M	S	D	4	8.0	0.70	36	0.07	4.5
80-024	FANTAIL DARTER	I		C	D	3	6.0	0.53	20	0.04	3.3

**No Species:** 25    **Nat. Species:** 25    **Hybrids:** 0    **Total Counted:** 570    **Total Rel. Wt. :** 54310

**IBI:** 48.0    **MIwb:** 9.8

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM25 River: 11-100 East Fork Little Miami River RM: 19.50 Date: 10/01/2012  
 Time Fished: 2416 Distance: 0.200 Drainge (sq mi): 344.0 Depth: 0  
 Location: Dst. E. Fork Lake @ end of Elklick Rd. Lat: 39.03286 Long: -84.15144

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-009	BLACK REDHORSE	I	I	S	R	8	12.0	2.64	5205	16.29	433.7
40-010	GOLDEN REDHORSE	I	M	S	R	1	1.5	0.33	750	2.35	500.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	22	33.0	7.26	5392	16.88	163.4
43-001	COMMON CARP	O	T	M	G	4	6.0	1.32	14250	44.61	2375.0
43-020	EMERALD SHINER	I		M	N	59	88.5	19.47	264	0.83	2.9
43-025	STRIPED SHINER	I		S	N	3	4.5	0.99	120	0.38	26.6
43-032	SPOTFIN SHINER	I		M	N	34	51.0	11.22	240	0.75	4.7
43-043	BLUNTNOSE MINNOW	O	T	C	N	61	91.5	20.13	199	0.62	2.1
43-044	CENTRAL STONEROLLER	H		N	N	33	49.5	10.89	1740	5.45	35.1
47-002	CHANNEL CATFISH			C	F	2	3.0	0.66	255	0.80	85.0
77-003	ROCK BASS	C		C	S	4	6.0	1.32	118	0.37	19.7
77-004	SMALLMOUTH BASS	C	M	C	F	27	40.5	8.91	2647	8.29	65.3
77-006	LARGEMOUTH BASS	C		C	F	2	3.0	0.66	49	0.15	16.5
77-008	GREEN SUNFISH	I	T	C	S	2	3.0	0.66	57	0.18	19.0
77-009	BLUEGILL SUNFISH	I	P	C	S	1	1.5	0.33	22	0.07	15.0
77-011	LONGEAR SUNFISH	I	M	C	S	21	31.5	6.93	498	1.56	15.8
80-011	LOGPERCH	I	M	S	D	1	1.5	0.33	30	0.09	20.0
80-015	GREENSIDE DARTER	I	M	S	D	11	16.5	3.63	90	0.28	5.4
80-016	BANDED DARTER	I	I	S	D	7	10.5	2.31	15	0.05	1.4

**No Species:** 19    **Nat. Species:** 18    **Hybrids:** 0    **Total Counted:** 303    **Total Rel. Wt. :** 31944  
**IBI:** 36.0    **MIwb:** 8.4

## **Appendix B**

### **Little Miami River 2012 Macroinvertebrate Assemblage Data**



Appendix Table B-1. ICI metrics and values from data collected by MBI in the Little Miami River study area in 2012.

Site ID	River Mile	Drainage Area (sq mi)	Number of				Percent:					Qual. EPT	ICI or Narrative
			Total Taxa	Mayfly Taxa	Caddisfly Taxa	Dipteran Taxa	Mayflies	Caddisflies	Tany-tarsini	Other Dipt/NI	Tolerant Organisms		
<b>Little Miami River (11-001)</b>													
Year: 2012													
LM01	27.80	1070.0	31(4)	8(6)	6(4)	10(4)	16.6(4)	18.6(4)	27.0(6)	37.5(0)	0.3(6)	19(6)	<b>44</b>
LM02	24.10	1150.0	44(6)	10(6)	8(6)	18(6)	10.0(2)	41.4(6)	14.7(4)	31.4(2)	0.5(6)	12(4)	<b>48</b>
LM03	22.80	1150.0	30(4)	6(4)	7(6)	10(4)	11.5(2)	43.6(6)	30.2(6)	13.7(6)	0.0(6)	17(6)	<b>50</b>
LM04	21.80	1150.0	35(6)	5(2)	5(4)	18(6)	2.6(2)	16.6(4)	14.8(4)	65.8(0)	2.9(2)	8(2)	<b>32</b>
LM05	21.40	1160.0	35(6)	5(2)	7(6)	15(6)	2.8(2)	32.4(4)	27.1(6)	36.9(0)	0.0(6)	14(4)	<b>42</b>
LM06	20.60	1160.0	23(4)	5(2)	6(4)	9(4)	9.1(2)	57.8(6)	21.7(4)	9.4(6)	0.0(6)	12(4)	<b>42</b>
LM07	18.60	1190.0	33(4)	5(2)	8(6)	15(6)	21.6(4)	47.9(6)	11.3(2)	19.1(4)	0.0(6)	15(4)	<b>44</b>
LM08	17.60	1190.0	38(6)	6(4)	7(6)	20(6)	6.0(2)	30.5(4)	21.5(4)	38.6(0)	1.2(6)	13(4)	<b>42</b>
LM09	13.10	1200.0	43(6)	9(6)	10(6)	15(6)	3.9(2)	57.8(6)	13.9(4)	23.4(4)	0.0(6)	15(4)	<b>50</b>
LM10	12.40	1210.0	33(4)	6(4)	8(6)	12(6)	7.8(2)	43.7(6)	14.4(4)	33.6(2)	0.0(6)	14(4)	<b>44</b>
LM11	10.90	1710.0	40(6)	7(4)	8(6)	18(6)	10.2(2)	23.2(4)	35.3(6)	30.9(2)	1.4(4)	18(6)	<b>46</b>
LM12	8.00	1710.0										16	
LM13	7.30	1720.0	33(6)	8(6)	7(6)	11(6)	13.2(4)	56.0(6)	5.6(2)	24.8(2)	0.0(6)	15(4)	<b>48</b>
LM14	5.30	1720.0	33(6)	6(4)	7(6)	13(6)	1.9(2)	16.3(2)	21.8(6)	59.5(0)	1.1(6)	13(4)	<b>42</b>
LM15	4.10	1730.0	44(6)	7(4)	10(6)	19(6)	3.8(2)	13.2(2)	20.8(6)	61.9(0)	0.4(6)	22(6)	<b>44</b>
LM16	3.40	1750.0	42(6)	6(4)	12(6)	14(6)	6.8(2)	16.4(2)	28.5(6)	47.9(0)	1.1(6)	14(4)	<b>42</b>
LM17	1.40	1760.0	22(4)	2(0)	3(2)	8(4)	0.1(2)	0.9(0)	0.0(0)	98.4(0)	0.6(6)	0(0)	<b>18</b>
<b>Unnamed Trib to Little Miami River at RM 0.83 (11-047)</b>													
Year: 2012													
LM103	0.10	1.7										2	<b>P</b>
<b>Unnamed Trib to Little Miami River at RM 13.1 (11-066)</b>													
Year: 2012													
LM21	1.50	3.0										7	<b>G</b>
<b>Unnamed Trib to Little Miami River at RM 7.75 (11-067)</b>													
Year: 2012													
LM20	1.20	0.5										5	
<b>Unnamed Trib (RM 2.7) to Unnamed Trib to Little Mi (11-068)</b>													
Year: 2012													
LM19	0.50	0.6										0	
<b>O'Bannon Creek (11-010)</b>													
Year: 2012													
LM37	1.90	54.3	10(0)	2(0)	3(4)	4(0)	63.1(6)	20.1(6)	1.1(2)	15.7(6)	0.0(6)	9(4)	<b>34</b>
LM38	0.10	59.0										32	<b>G</b>
<b>Polk Run (11-009)</b>													
Year: 2012													

Appendix Table B-1. ICI metrics and values from data collected by MBI in the Little Miami River study area in 2012.

Site ID	River Mile	Drainage Area (sq mi)	Number of				Percent:					Qual. EPT	ICI or Narrative
			Total Taxa	Mayfly Taxa	Caddisfly Taxa	Dipteran Taxa	Mayflies	Caddisflies	Tanytarsini	Other Dipt/NI	Tolerant Organisms		
LM46	3.20	2.6										5	MG
LM39	3.00	2.7										6	G
LM40	0.30	10.0	20(2)	1(0)	1(2)	15(4)	3.5(2)	0.6(2)	23.0(6)	71.3(0)	3.6(6)	7(4)	G
Unnamed Trib to Polk Run at RM 1.79 (11-069)													
Year: 2012													
LM41	2.60	1.3										5	MG
LM44	0.40	2.4										7	G
Unnamed Trib to Polk Run at RM 0.70 (11-070)													
Year: 2012													
LM42	1.90	0.8										4	F
LM43	0.80	2.5										5	MG
Unnamed Trib (RM 1.77) to Unnamed Trib to Polk Run (11-071)													
Year: 2012													
LM45	0.20	1.1										6	G
Sycamore Creek (11-007)													
Year: 2012													
LM47	3.60	3.5										3	F
LM48	2.40	4.8										5	MG
LM49	1.50	6.6	10(0)	2(0)	1(4)	5(0)	3.0(2)	3.0(6)	3.0(2)	90.9(0)	0.0(6)	9(4)	G
LM50	1.10	12.7	16(2)	2(0)	2(4)	8(2)	3.6(2)	5.5(6)	0.0(0)	89.2(0)	0.0(6)	7(2)	MG
LM51	0.30	22.7	14(2)	3(2)	1(2)	7(2)	3.7(2)	0.6(2)	1.3(2)	94.4(0)	5.0(6)	11(4)	G
LM52	0.20	23.3										8	MG
North Branch Sycamore Creek (11-008)													
Year: 2012													
LM57	5.00	2.9										6	G
LM58	3.70	4.4										7	G
LM59	2.00	7.3										9	G
LM60	0.50	9.8	17(2)	2(0)	1(4)	12(2)	9.4(2)	2.3(6)	25.1(6)	62.9(2)	0.0(6)	9(4)	34
LM61	0.05	9.9	22(2)	4(2)	2(4)	12(2)	43.3(6)	5.7(6)	1.3(2)	44.6(4)	14.0(4)	8(4)	36
Trib To Sycamore Cr. (RM 1.12) (11-049)													
Year: 2012													
LM55	1.00	5.3										7	G
LM56	0.30	5.6										8	G
LM53	0.10	5.7	19(2)	1(0)	0(0)	15(4)	7.4(2)	0.0(0)	11.6(4)	80.6(0)	2.5(6)	8(4)	G
Unnamed Trib to N Branch Sycamore Creek at RM 5.4 (11-073)													
Year: 2012													
LM63	0.60	1.1										1	P

Appendix Table B-1. ICI metrics and values from data collected by MBI in the Little Miami River study area in 2012.

Site ID	River Mile	Drainage Area (sq mi)	Number of				Percent:					Qual. EPT	ICI or Narrative	
			Total Taxa	Mayfly Taxa	Caddisfly Taxa	Dipteran Taxa	Mayflies	Caddisflies	Tany-tarsini	Other Dipt/NI	Tolerant Organisms			
<b>Unnamed Trib to N Br Sycamore Cr at RM 0.75 (11-074)</b>														
Year: 2012														
LM64	1.40	0.5											0	
<b>Trib to North Branch Sycamore Creek ar RM 2.33 (11-084)</b>														
Year: 2012														
LM62	1.65	0.6											1	
<b>East Fork Little Miami River (11-100)</b>														
Year: 2012														
LM25	19.50	344.0	31(4)	6(4)	6(6)	10(2)	27.0(4)	47.5(6)	14.4(2)	10.5(6)	0.6(6)	16(4)	44	
LM26	14.90	352.0	48(6)	9(6)	7(6)	22(6)	43.2(6)	7.1(2)	4.7(2)	43.4(2)	3.0(6)	25(6)	48	
LM27	13.90	364.0	32(4)	6(4)	8(6)	9(2)	34.3(6)	46.7(6)	7.8(2)	9.7(6)	0.3(6)	22(6)	48	
LM28	13.20	372.0	42(6)	6(4)	7(6)	16(6)	32.5(6)	35.2(6)	7.4(2)	23.6(4)	2.3(6)	24(6)	52	
LM29	11.00	376.0	28(4)	6(4)	7(6)	9(2)	15.3(4)	50.4(6)	12.3(2)	21.9(6)	0.5(6)	16(4)	44	
LM30	9.10	380.0	37(6)	6(4)	8(6)	12(4)	6.3(2)	43.5(6)	5.9(2)	35.0(4)	0.2(6)	17(6)	46	
LM31	5.60	485.0	47(6)	9(6)	8(6)	20(6)	9.9(2)	39.1(6)	6.0(2)	44.3(2)	3.9(4)	20(6)	46	
LM32	4.30	491.0	39(6)	7(4)	9(6)	15(6)	22.6(4)	46.8(6)	10.1(2)	18.0(6)	0.3(6)	16(4)	50	
LM34	2.00	494.0	48(6)	8(4)	7(6)	24(6)	9.7(2)	36.5(6)	9.9(2)	42.4(2)	5.9(2)	18(6)	42	
LM35	1.00	498.0	36(6)	8(4)	9(6)	15(6)	10.9(2)	63.8(6)	6.2(2)	18.7(6)	0.3(6)	17(6)	50	
LM36	0.70	499.0	43(6)	9(6)	11(6)	17(6)	13.2(2)	46.4(6)	11.6(2)	28.4(4)	0.0(6)	17(6)	50	
<b>Dry Run (11-005)</b>														
Year: 2012														
LM70	5.60	0.8											4	
LM66	4.10	3.2											6	G
LM67	2.50	4.7											8	G
<b>Trib to Dry Run (4.20) (11-064)</b>														
Year: 2012														
LM69	0.10	0.9											7	G
<b>Duck Creek (11-004)</b>														
Year: 2012														
LM71	6.00	2.2											0	VP
LM78	5.20	3.5											1	VP
LM72	4.60	5.1											2	P
LM73	4.40	5.8											2	P
LM75	3.30	11.4											4	F
LM76	2.90	11.9	14(2)	0(0)	0(0)	10(2)	0.0(0)	0.0(0)	22.4(6)	77.6(0)	4.6(6)	5(2)	F	F
LM77	1.80	14.3											4	F
LM79	0.90	14.6											0	VP

Appendix Table B-1. ICI metrics and values from data collected by MBI in the Little Miami River study area in 2012.

Site ID	River Mile	Drainage Area (sq mi)	Number of				Percent:					Qual. EPT	ICI or Narrative	
			Total Taxa	Mayfly Taxa	Caddisfly Taxa	Dipteran Taxa	Mayflies	Caddisflies	Tany-tarsini	Other Dipt/NI	Tolerant Organisms			
<b>East Fork Duck Creek (11-051)</b>														
Year: 2012														
LM85	1.50	1.3										0	VP	
LM84	0.60	2.4										1	VP	
LM74	0.15	3.4										3	VP	
<b>Unnamed Trib to Duck Creek at RM 4.8 (11-075)</b>														
Year: 2012														
LM80	0.20	1.4										0	VP	
<b>Little Duck Creek (11-076)</b>														
Year: 2012														
LM86	2.70	0.4										7	G	
LM87	2.60	0.5										6	G	
LM90	2.30	0.5										5	MG	
LM89	1.40	1.1										2	P	
<b>Unnamed Trib to Little Duck Creek at RM 4.42 (11-077)</b>														
Year: 2012														
LM82	0.10	1.4										0		
<b>Clough Creek (11-002)</b>														
Year: 2012														
LM99	4.60	0.9										3	F	
LM95	3.20	2.0										3	F	
LM96	3.10	5.4										6	G	
LM97	1.20	7.5	19(2)	2(0)	5(6)	10(2)	6.5(2)	53.3(6)	7.5(2)	32.3(4)	1.0(6)	7(4)	34	
LM98	0.40	8.0										8	G	
<b>McCullough Run (11-003)</b>														
Year: 2012														
LM94	1.30	1.7										0	VP	
<b>Unnamed Trib to McCullough Run at RM 1.08 (11-078)</b>														
Year: 2012														
LM93	1.40	0.9										5	MG	
<b>Trib to Unnamed Trib to Clough Creek at RM3.06 (11-079)</b>														
Year: 2012														
LM101	1.05	0.7										4	F	
<b>UT at RM 0.66 to UT to Clough Creek at RM 3.06 (11-080)</b>														
Year: 2012														
LM102	0.20	1.1										2	P	
<b>UT at RM 0.95 to UT to Clough Creek at RM 3.06 (11-081)</b>														

Appendix Table B-1. ICI metrics and values from data collected by MBI in the Little Miami River study area in 2012.

Site ID	River Mile	Drainage Area (sq mi)	Number of				Percent:					Qual. EPT	ICI or Narrative	
			Total Taxa	Mayfly Taxa	Caddisfly Taxa	Dipteran Taxa	Mayflies	Caddisflies	Tany-tarsini	Other Dipt/NI	Tolerant Organisms			
Year: 2012														
LM100	0.10	0.9											2	P
Five Mile Creek (10-001)														
Year: 2012														
LM107	2.50	2.6											5	MG
LM108	0.20	4.8											5	MG
Eight Mile Creek (10-002)														
Year: 2012														
LM105	2.00	0.8											2	
Trib to Eight Mile Creek at RM 1.01 (10-130)														
Year: 2012														
LM106	0.10	1.1											4	
Four Mile Creek (10-537)														
Year: 2012														
LM104	0.80	1.1											4	F

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM108**      Collection Date: 07/23/2012   River Code: 10-001   River: Fivemile Creek      RM: 0.20

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	+				
50315	Chimarra obscura	+				
52530	Hydropsyche depravata group	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
84450	Polypedilum (Uresipedilum) flavum	+				

No. Quantitative Taxa: 0      Total Taxa: 8  
 No. Qualitative Taxa: 8      ICI: MG  
 Number of Organisms: 0      Qual EPT: 5

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM107**      Collection Date: 07/26/2012      River Code: 10-001      River: Fivemile Creek      RM: 2.50

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05900	Lirceus sp	+				
11120	Baetis flavistriga	+				
13521	Stenonema femoratum	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68025	Ectopria sp	+				
69400	Stenelmis sp	+				
82710	Chironomus (C.) sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				

No. Quantitative Taxa:	0	Total Taxa:	13
No. Qualitative Taxa:	13	ICI:	MG
Number of Organisms:	0	Qual EPT:	5

Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.

Site ID: **LM105**      Collection Date: 07/26/2012   River Code: 10-002   River: Eightmile Creek      RM: 2.00

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01320	Hydra sp	+				
01801	Turbellaria	+				
03600	Oligochaeta	+				
11120	Baetis flavistriga	+				
52530	Hydropsyche depravata group	+				
69400	Stenelmis sp	+				
78599	Pentaneura sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84315	Phaenopsectra flavipes	+				
84450	Polypedilum (Uresipedilum) flavum	+				

No. Quantitative Taxa: 0      Total Taxa: 10  
 No. Qualitative Taxa: 10      ICI:  
 Number of Organisms: 0      Qual EPT: 2



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM106**      Collection Date: 07/26/2012   River Code: 10-130   River: Trib to Eight Mile Creek @   RM:      0.10

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05900	Lirceus sp	+				
06700	Crangonyx sp	+				
07800	Cambarus sp	+				
11120	Baetis flavistriga	+				
13521	Stenonema femoratum	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
74100	Simulium sp	+				
83040	Dicrotendipes neomodestus	+				
83840	Microtendipes pedellus group	+				
84210	Paratendipes albimanus or P. duplicatus	+				

No. Quantitative Taxa: 0      Total Taxa: 15

No. Qualitative Taxa: 15      ICI:

Number of Organisms: 0      Qual EPT: 4

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM104**      Collection Date: 07/23/2012   River Code: 10-537   River: Fourmile Creek (Ohio R.)   RM: 0.80

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
11120	Baetis flavistriga	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
71100	Hexatoma sp	+				
71900	Tipula sp	+				
77750	Hayesomyia senata or Thienemannimyia norena	+				
83840	Microtendipes pedellus group	+				
84450	Polypedilum (Uresipedilum) flavum	+				

No. Quantitative Taxa:	0	Total Taxa:	11
No. Qualitative Taxa:	11	ICI:	F
Number of Organisms:	0	Qual EPT:	4

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM17**      Collection Date: 08/28/2012   River Code: 11-001   River: Little Miami River      RM: 1.40

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	16 +				
03360	Plumatella sp	4 +				
03600	Oligochaeta	35 +				
16700	Tricorythodes sp	4				
17200	Caenis sp	1				
22300	Argia sp	51				
51206	Cynellus fraternus	55				
54200	Orthotrichia sp	5				
59407	Nectopsyche candida	6				
60900	Peltodytes sp	+				
63900	Laccophilus sp	+				
68601	Ancyronyx variegata	1				
68700	Dubiraphia sp	1				
69400	Stenelmis sp	+				
77120	Ablabesmyia mallochi	107				
77130	Ablabesmyia rhamphe group	322				
82710	Chironomus (C.) sp	+				
83000	Dicrotendipes sp	430				
83040	Dicrotendipes neomodestus	215				
83050	Dicrotendipes lucifer	537				
83300	Glyptotendipes (G.) sp	5586 +				
84000	Parachironomus sp	67				
84470	Polypedilum (P.) illinoense	+				
84540	Polypedilum (Tripodura) scalaenum group	215				
85821	Tanytarsus glabrescens group sp 7	+				
94201	Lymnaeidae	+				
95100	Physella sp	14 +				
96100	Menetus (Micromenetus) sp	9				
98001	Sphaeriidae	13				

No. Quantitative Taxa:	22	Total Taxa:	29
No. Qualitative Taxa:	12	ICI:	18
Number of Organisms:	7694	Qual EPT:	0

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM16</b>		Collection Date: 08/23/2012		River Code: 11-001		River: Little Miami River		RM: 3.40	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	196 +	83040	Dicrotendipes neomodestus		+			
03360	Plumatella sp	34 +	83050	Dicrotendipes lucifer		75 +			
03600	Oligochaeta	112 +	83300	Glyptotendipes (G.) sp		1572 +			
04960	Mooreobdella sp	5	83310	Glyptotendipes (H.) chelonia		75			
11119	Plauditus dubius or P. virilis	+	84450	Polypedilum (Uresipedilum) flavum		1273 +			
11130	Baetis intercalaris	146 +	84470	Polypedilum (P.) illinoense		+			
13510	Maccaffertium exiguum	30 +	84700	Stenochironomus sp		75			
13550	Maccaffertium mexicanum integrum	19	85265	Cladotanytarsus vanderwulpi group		+			
13561	Maccaffertium pulchellum	88 +		Type 5					
13570	Maccaffertium terminatum	13 +	85625	Rheotanytarsus sp		2995 +			
16700	Tricorythodes sp	422 +	85821	Tanytarsus glabrescens group sp 7		+			
21300	Hetaerina sp	1	87540	Hemerodromia sp		7			
22001	Coenagrionidae	+	93900	Elimia sp		+			
22300	Argia sp	26 +	95100	Physella sp		+			
27400	Neurocordulia sp	1 +							
50315	Chimarra obscura	32 +	No. Quantitative Taxa:	42	Total Taxa:	55			
51206	Cynellus fraternus	2 +	No. Qualitative Taxa:	39	ICI:	42			
51300	Neureclipsis sp	26	Number of Organisms:	10505	Qual EPT:	14			
52200	Cheumatopsyche sp	1489 +							
52430	Ceratopsyche morosa group	27 +							
52550	Hydropsyche frisoni	39 +							
52560	Hydropsyche orris	25							
52570	Hydropsyche simulans	3							
52801	Potamyia flava	29 +							
53800	Hydroptila sp	32							
59160	Ceraclea spongillovorax	15 +							
59407	Nectopsyche candida	3 +							
59970	Petrophila sp	3							
66500	Enochrus sp	+							
68201	Scirtidae	+							
68601	Ancyronyx variegata	1							
68901	Macronychus glabratus	2							
69400	Stenelmis sp	+							
74100	Simulium sp	2 +							
77120	Ablabesmyia mallochi	225							
77130	Ablabesmyia rhamphe group	+							
77750	Hayesomyia senata or Thienemannimyia norena	749 +							
78750	Rheopelopia paramaculipennis	401 +							
80350	Corynoneura sp	32							
80410	Cricotopus (C.) sp	75							
80430	Cricotopus (C.) tremulus group	+							
82130	Thienemanniella similis	128 +							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM15</b>		Collection Date: 08/25/2012		River Code: 11-001		River: Little Miami River		RM: 4.10	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	210	80001	Orthoclaadiinae		83			
03073	Lophopodella carteri	1 +	80310	Cardiocladius obscurus		+			
03360	Plumatella sp	20 +	80420	Cricotopus (C.) bicinctus		+			
03600	Oligochaeta	40	80430	Cricotopus (C.) tremulus group		+			
11119	Plauditus dubius or P. virilis	+	81201	Nanocladius (N.) sp		83			
11130	Baetis intercalaris	79 +	81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"		166 +			
11200	Callibaetis sp	+	82130	Thienemanniella similis		160			
12200	Isonychia sp	1 +	82220	Tvetenia discoloripes group		83			
13000	Leucrocuta sp	+	83040	Dicrotendipes neomodestus		379 +			
13510	Maccaffertium exiguum	34 +	83050	Dicrotendipes lucifer		285 +			
13521	Stenonema femoratum	+	83300	Glyptotendipes (G.) sp		746 +			
13550	Maccaffertium mexicanum integrum	7	83310	Glyptotendipes (H.) chelonia		249			
13561	Maccaffertium pulchellum	83 +	84000	Parachironomus sp		83			
13570	Maccaffertium terminatum	2 +	84040	Parachironomus frequens		83			
16700	Tricorythodes sp	185 +	84450	Polypedilum (Uresipedilum) flavum		2239 +			
17200	Caenis sp	+	84470	Polypedilum (P.) illinoense		+			
21300	Hetaerina sp	+	84540	Polypedilum (Tripodura) scalaenum group		249 +			
22001	Coenagrionidae	+	84700	Stenochironomus sp		83			
22300	Argia sp	1 +	84960	Pseudochironomus sp		+			
27400	Neurocordulia sp	+	85625	Rheotanytarsus sp		2073 +			
50315	Chimarra obscura	+	85821	Tanytarsus glabrescens group sp 7		83			
51206	Cynellus fraternus	3	93900	Elimia sp		+			
51300	Neureclipsis sp	+	95100	Physella sp		+			
51600	Polycentropus sp	+							
52200	Cheumatopsyche sp	896 +							
52430	Ceratopsyche morosa group	238 +							
52510	Hydropsyche aerata	46 +	No. Quantitative Taxa: 44		Total Taxa: 65				
52540	Hydropsyche dicantha	1	No. Qualitative Taxa: 48		ICI: 44				
52560	Hydropsyche orris	36 +	Number of Organisms: 10372		Qual EPT: 22				
52570	Hydropsyche simulans	47							
52801	Potamyia flava	1 +							
53400	Protoptila sp	+							
59160	Ceraclea spongillovorax	38 +							
59407	Nectopsyche candida	+							
59500	Oecetis sp	64							
59970	Petrophila sp	20 +							
67800	Tropisternus sp	+							
68901	Macronychus glabratus	11							
69400	Stenelmis sp	3 +							
74100	Simulium sp	17 +							
77750	Hayesomyia senata or Thienemannimyia norena	829 +							
78750	Rheopelopia paramaculipennis	332 +							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM14</b>		Collection Date: 08/24/2012		River Code: 11-001		River: Little Miami River		RM: 5.30	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	52	83300	Glyptotendipes (G.) sp		1069	+		
03360	Plumatella sp	24	83310	Glyptotendipes (H.) chelonia		102			
03600	Oligochaeta	4	84000	Parachironomus sp			+		
11130	Baetis intercalaris	1	84040	Parachironomus frequens		102			
13400	Stenacron sp		84450	Polypedilum (Uresipedilum) flavum		509	+		
13510	Maccaffertium exiguum	14	84470	Polypedilum (P.) illinoense			+		
13521	Stenonema femoratum	1	84540	Polypedilum (Tripodura) scalaenum group		51			
13550	Maccaffertium mexicanum integrum	1	85625	Rheotanytarsus sp		967	+		
13561	Maccaffertium pulchellum	51	85821	Tanytarsus glabrescens group sp 7		162			
13570	Maccaffertium terminatum		93900	Elimia sp			+		
16700	Tricorythodes sp	32	95100	Physella sp		1			
21300	Hetaerina sp		99720	Potamilus ohioensis			+		
22300	Argia sp	1							
24900	Gomphus sp								
50315	Chimarra obscura		No. Quantitative Taxa:		33	Total Taxa:		53	
51206	Cynellus fraternus	194	No. Qualitative Taxa:		36	ICI:		42	
51300	Neureclipsis sp		Number of Organisms:		5188	Qual EPT:		13	
52200	Cheumatopsyche sp	593							
52430	Ceratopsyche morosa group	3							
52510	Hydropsyche aerata	1							
52570	Hydropsyche simulans	25							
52801	Potamyia flava	16							
53800	Hydroptila sp								
59160	Ceraclea spongillovorax	16							
59407	Nectopsyche candida								
59500	Oecetis sp								
59970	Petrophila sp	8							
65800	Berosus sp								
68075	Psephenus herricki								
68601	Ancyronyx variegata								
68901	Macronychus glabratus	16							
69400	Stenelmis sp								
77120	Ablabesmyia mallochi								
77130	Ablabesmyia rhamphe group								
77750	Hayesomyia senata or Thienemannimyia norena	356							
78750	Rheopelopia paramaculipennis	153							
80410	Cricotopus (C.) sp	153							
81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"								
81240	Nanocladius (N.) distinctus	51							
83040	Dicrotendipes neomodestus	255							
83050	Dicrotendipes lucifer	204							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM13</b>		Collection Date: 08/24/2012		River Code: 11-001		River: Little Miami River		RM: 7.30	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	145 +	82100	Thienemanniella sp		8			
03360	Plumatella sp	24	82201	Tvetenia sp		57			
03451	Urnatella gracilis	1 +	83300	Glyptotendipes (G.) sp		58 +			
03600	Oligochaeta	+	83310	Glyptotendipes (H.) chelonia		38			
11020	Acerpenna pygmaea	1	84450	Polypedilum (Uresipedilum) flavum		803 +			
11130	Baetis intercalaris	466 +	84470	Polypedilum (P.) illinoense		+			
12200	Isonychia sp	4	84520	Polypedilum (Tripodura) halterale group		+			
13000	Leucrocota sp	+	84540	Polypedilum (Tripodura) scalaenum group		19			
13510	Maccaffertium exiguum	63 +							
13550	Maccaffertium mexicanum integrum	1	85625	Rheotanytarsus sp		306 +			
13561	Maccaffertium pulchellum	89 +	93900	Elimia sp		+			
13570	Maccaffertium terminatum	2	95100	Physella sp		+			
16700	Tricorythodes sp	89 +	97601	Corbicula fluminea		1 +			
21300	Hetaerina sp	+	98600	Sphaerium sp		9 +			
22001	Coenagrionidae	+							
22300	Argia sp	+	No. Quantitative Taxa: 33		Total Taxa: 54				
27307	Epitheca (Epicordulia) princeps	+	No. Qualitative Taxa: 42		ICI: 48				
50315	Chimarra obscura	141 +	Number of Organisms: 5437		Qual EPT: 15				
51206	Cynellus fraternus	+							
51300	Neureclipsis sp	+							
52200	Cheumatopsyche sp	2340 +							
52430	Ceratopsyche morosa group	387 +							
52510	Hydropsyche aerata	3 +							
52560	Hydropsyche orris	3							
52570	Hydropsyche simulans	167 +							
53800	Hydroptila sp	+							
59160	Ceraclea spongillovorax	1 +							
59407	Nectopsyche candida	+							
59970	Petrophila sp	+							
63900	Laccophilus sp	+							
65800	Berosus sp	+							
68601	Ancyronyx variegata	+							
68901	Macronychus glabratus	11							
69400	Stenelmis sp	16 +							
74100	Simulium sp	50 +							
77130	Ablabesmyia rhamphe group	+							
77750	Hayesomyia senata or Thienemannimyia norena	38 +							
78450	Nilotanypus fimbriatus	+							
78750	Rheopelopia paramaculipennis	77							
80310	Cardiocladius obscurus	+							
81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"	19 +							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM12</b>		Collection Date: 08/25/2012		River Code: 11-001		River: Little Miami River		RM: 8.00	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	+							
03073	Lophopodella carteri	+	No. Quantitative Taxa: 0		Total Taxa: 40				
03360	Plumatella sp	+	No. Qualitative Taxa: 40		ICI:				
04663	Helobdella papillata	+	Number of Organisms: 0		Qual EPT: 16				
11119	Plauditus dubius or P. virilis	+							
11130	Baetis intercalaris	+							
12200	Isonychia sp	+							
13000	Leucrocuta sp	+							
13400	Stenacron sp	+							
13510	Maccaffertium exiguum	+							
13561	Maccaffertium pulchellum	+							
17200	Caenis sp	+							
21300	Hetaerina sp	+							
22300	Argia sp	+							
50315	Chimarra obscura	+							
52200	Cheumatopsyche sp	+							
52430	Ceratopsyche morosa group	+							
52510	Hydropsyche aerata	+							
52801	Potamyia flava	+							
53800	Hydroptila sp	+							
59160	Ceraclea spongillovorax	+							
59407	Nectopsyche candida	+							
66500	Enochrus sp	+							
69400	Stenelmis sp	+							
74100	Simulium sp	+							
77120	Ablabesmyia mallochi	+							
78750	Rheopelopia paramaculipennis	+							
80310	Cardiocladius obscurus	+							
80430	Cricotopus (C.) tremulus group	+							
81240	Nanocladius (N.) distinctus	+							
82130	Thienemanniella similis	+							
83040	Dicrotendipes neomodestus	+							
83310	Glyptotendipes (H.) chelonia	+							
84450	Polypedilum (Uresipedilum) flavum	+							
84470	Polypedilum (P.) illinoense	+							
84540	Polypedilum (Tripodura) scalaenum group	+							
85625	Rheotanytarsus sp	+							
85821	Tanytarsus glabrescens group sp 7	+							
93900	Elimia sp	+							
95100	Physella sp	+							



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM11</b>		Collection Date: 08/20/2012 River Code: 11-001		River: Little Miami River		RM: 10.90		
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.		
01801	Turbellaria	71 +	82101	Thienemanniella taurocapita		32		
03360	Plumatella sp	23 +	82130	Thienemanniella similis		32 +		
03600	Oligochaeta	8 +	83040	Dicrotendipes neomodestus		84		
04663	Helobdella papillata	+	83050	Dicrotendipes lucifer		126 +		
11119	Plauditus dubius or P. virilis	9 +	83300	Glyptotendipes (G.) sp		251 +		
11130	Baetis intercalaris	118 +	83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)		+		
13000	Leucrocuta sp	+	84039	Parachironomus frequens group		42 +		
13400	Stenacron sp	+	84450	Polypedilum (Uresipedilum) flavum		795 +		
13510	Maccaffertium exiguum	25	84540	Polypedilum (Tripodura) scalaenum group		+		
13521	Stenonema femoratum	+	84960	Pseudochironomus sp		42		
13550	Maccaffertium mexicanum integrum	5	85625	Rheotanytarsus sp		2177 +		
13561	Maccaffertium pulchellum	25 +	85821	Tanytarsus glabrescens group sp 7		126		
13570	Maccaffertium terminatum	15 +	87501	Empididae		1		
16700	Tricorythodes sp	467 +	93900	Elimia sp		1 +		
17200	Caenis sp	+	97601	Corbicula fluminea		+		
21300	Hetaerina sp	+	98600	Sphaerium sp		+		
22001	Coenagrionidae	+						
22300	Argia sp	1 +						
27400	Neurocordulia sp	+						
34605	Perlinella drymo	+	No. Quantitative Taxa: 40		Total Taxa: 58			
50315	Chimarra obscura	+	No. Qualitative Taxa: 46		ICI: 46			
51206	Cynellus fraternus	35	Number of Organisms: 6517		Qual EPT: 18			
51300	Neureclipsis sp	6 +						
51600	Polycentropus sp	1 +						
52200	Cheumatopsyche sp	1310 +						
52430	Ceratopsyche morosa group	47 +						
52510	Hydropsyche aerata	58 +						
53800	Hydroptila sp	35 +						
59160	Ceraclea spongillovorax	19 +						
59970	Petrophila sp	17 +						
65800	Berosus sp	+						
67800	Tropisternus sp	+						
68901	Macronychus glabratus	10 +						
69400	Stenelmis sp	+						
74100	Simulium sp	+						
77130	Ablabesmyia rhamphe group	42						
77750	Hayesomyia senata or Thienemannimyia norena	50 +						
78750	Rheopelopia paramaculipennis	201 +						
80310	Cardiocladius obscurus	84 +						
80420	Cricotopus (C.) bicinctus	42						
80430	Cricotopus (C.) tremulus group	42						
81240	Nanocladius (N.) distinctus	42						

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM10</b>		Collection Date: 08/20/2012		River Code: 11-001		River: Little Miami River		RM: 12.40	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	93 +	83300	Glyptotendipes (G.) sp		67			
03360	Plumatella sp	36 +	83310	Glyptotendipes (H.) chelonia		34 +			
03600	Oligochaeta	+	84450	Polypedium (Uresipedilum) flavum		1106 +			
05900	Lirceus sp	1 +	84540	Polypedium (Tripodura) scalaenum group		34 +			
11119	Plauditus dubius or P. virilis	1 +							
11130	Baetis intercalaris	324 +	85625	Rheotanytarsus sp		771 +			
12200	Isonychia sp	2	85821	Tanytarsus glabrescens group sp 7		67			
13400	Stenacron sp	+	93900	Elimia sp		+			
13510	Maccaffertium exiguum	2 +	95100	Physella sp		+			
13521	Stenonema femoratum	+	96900	Ferrissia sp		+			
13561	Maccaffertium pulchellum	15 +	97601	Corbicula fluminea		+			
13570	Maccaffertium terminatum	+							
16700	Tricorythodes sp	110 +	No. Quantitative Taxa: 33		Total Taxa: 51				
21300	Hetaerina sp	+	No. Qualitative Taxa: 42		ICI: 44				
22001	Coenagrionidae	+	Number of Organisms: 5806		Qual EPT: 14				
22300	Argia sp	1 +							
24900	Gomphus sp	+							
34700	Agnetina capitata complex	+							
50315	Chimarra obscura	10 +							
52200	Cheumatopsyche sp	1935 +							
52430	Ceratopsyche morosa group	537 +							
52510	Hydropsyche aerata	47 +							
52540	Hydropsyche dicantha	1 +							
52801	Potamyia flava	1							
53800	Hydroptila sp	2							
59160	Ceraclea spongillovorax	5							
59970	Petrophila sp	22 +							
60900	Peltodytes sp	+							
65800	Berosus sp	+							
68075	Psephenus herricki	+							
68601	Ancyronyx variegata	+							
69400	Stenelmis sp	1 +							
69713	Lutrochus laticeps	1							
77750	Hayesomyia senata or Thienemannimyia norena	235 +							
78450	Nilotanypus fimbriatus	8							
78750	Rheopelopia paramaculipennis	235 +							
80430	Cricotopus (C.) tremulus group	34 +							
81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"	34 +							
81240	Nanocladius (N.) distinctus	+							
82220	Tvetenia discoloripes group	34							
82730	Chironomus (C.) decorus group	+							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM09</b>		Collection Date: 08/15/2012		River Code: 11-001		River: Little Miami River		RM: 13.10	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	247 +	82820	Cryptochironomus sp		+			
03360	Plumatella sp	42 +	83040	Dicrotendipes neomodestus		42			
11119	Plauditus dubius or P. virilis	2	83300	Glyptotendipes (G.) sp		21			
11130	Baetis intercalaris	44 +	83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)		83			
12200	Isonychia sp	+	84450	Polypedilum (Uresipedilum) flavum		395 +			
13400	Stenacron sp	2 +	84470	Polypedilum (P.) illinoense		+			
13510	Maccaffertium exiguum	9	84540	Polypedilum (Tripodura) scalaenum group		21			
13521	Stenonema femoratum	2 +	84888	Xenochironomus xenolabis		21			
13561	Maccaffertium pulchellum	4 +	85265	Cladotanytarsus vanderwulpi group Type 5		21 +			
13570	Maccaffertium terminatum	1 +	85625	Rheotanytarsus sp		727 +			
16700	Tricorythodes sp	162 +	85821	Tanytarsus glabrescens group sp 7		62 +			
17200	Caenis sp	1 +	93900	Elimia sp		23 +			
22001	Coenagrionidae	+	95100	Physella sp		+			
22300	Argia sp	8 +	97601	Corbicula fluminea		2 +			
26700	Macromia sp	+	98600	Sphaerium sp		18 +			
44501	Corixidae	+							
50315	Chimarra obscura	10 +							
51206	Cyrnellus fraternus	3							
51300	Neureclipsis sp	2 +							
51600	Polycentropus sp	1							
52200	Cheumatopsyche sp	3071 +							
52430	Ceratopsyche morosa group	229 +							
52510	Hydropsyche aerata	10 +							
52570	Hydropsyche simulans	20							
52801	Potamyia flava	10							
59160	Ceraclea spongillovorax	7							
59407	Nectopsyche candida	+							
59580	Oecetis persimilis	+							
59970	Petrophila sp	32 +							
68901	Macronychus glabratus	16							
69400	Stenelmis sp	2 +							
74100	Simulium sp	+							
77120	Ablabesmyia mallochi	+							
77130	Ablabesmyia rhamphe group	21							
77750	Hayesomyia senata or Thienemannimyia norena	221 +							
78450	Nilotanypus fimbriatus	21							
78750	Rheopelopia paramaculipennis	155 +							
80310	Cardiocladius obscurus	+							
80410	Cricotopus (C.) sp	+							
81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"	21 +							
82101	Thienemanniella taurocapita	8							
			No. Quantitative Taxa:		43	Total Taxa:		56	
			No. Qualitative Taxa:		40	ICI:		50	
			Number of Organisms:		5820	Qual EPT:		15	

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM08</b>		Collection Date: 08/24/2012 River Code: 11-001		River: Little Miami River		RM: 17.60	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.	
01801	Turbellaria	5 +	81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"		109	
03073	Lophopodella carteri	+					
03360	Plumatella sp	10 +	82101	Thienemanniella taurocapita		32	
03451	Urnatella gracilis	+	82130	Thienemanniella similis		16	
03600	Oligochaeta	16	82220	Tvetenia discoloripes group			+
06201	Hyalella azteca	+	82820	Cryptochironomus sp			+
11119	Plauditus dubius or P. virilis	2	83040	Dicrotendipes neomodestus		254	
11130	Baetis intercalaris	279 +	83050	Dicrotendipes lucifer		145	
13521	Stenonema femoratum	1 +	83051	Dicrotendipes simpsoni		36 +	
13560	Maccaffertium pulchellum group	1 +	83300	Glyptotendipes (G.) sp		363 +	
13570	Maccaffertium terminatum	11	83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)			+
16700	Tricorythodes sp	153 +	84000	Parachironomus sp			+
21200	Calopteryx sp	+	84450	Polypedilum (Uresipedilum) flavum		1053 +	
22001	Coenagrionidae	+	84700	Stenochironomus sp		73	
22300	Argia sp	+	84960	Pseudochironomus sp		109	
27400	Neurocordulia sp	+	85625	Rheotanytarsus sp		1525 +	
34605	Perlinella drymo	+	85800	Tanytarsus sp		36	
50315	Chimarra obscura	+	85821	Tanytarsus glabrescens group sp 7		36 +	
51206	Cynellus fraternus	49 +	93900	Elimia sp			+
51300	Neureclipsis sp	1	97601	Corbicula fluminea			+
51600	Polycentropus sp	+	98600	Sphaerium sp			+
52200	Cheumatopsyche sp	1937 +					
52430	Ceratopsyche morosa group	150 +					
52510	Hydropsyche aerata	109 +					
52570	Hydropsyche simulans	14					
53800	Hydroptila sp	+					
59160	Ceraclea spongillovorax	6 +					
59970	Petrophila sp	247 +					
65800	Berosus sp	+					
68075	Psephenus herricki	+					
68901	Macronychus glabratus	1					
69400	Stenelmis sp	+					
74100	Simulium sp	8 +					
74650	Atrichopogon sp	+					
77120	Ablabesmyia mallochi	+					
77130	Ablabesmyia rhamphe group	+					
77750	Hayesomyia senata or Thienemannimyia norena	88					
77800	Helopelopia sp	43					
78450	Nilotanypus fimbriatus	16					
78750	Rheopelopia paramaculipennis	305 +					
80410	Cricotopus (C.) sp	145					
80420	Cricotopus (C.) bicinctus	36					
			No. Quantitative Taxa: 38		Total Taxa: 62		
			No. Qualitative Taxa: 43		ICI: 42		
			Number of Organisms: 7420		Qual EPT: 13		

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM07</b>		Collection Date: 08/24/2012 River Code: 11-001		River: Little Miami River		RM: 18.60	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.	
01801	Turbellaria	1 +		"rectinervis"			
03073	Lophopodella carteri	+	82141	Thienemanniella xena		+	
03360	Plumatella sp	5 +	82220	Tvetenia discoloripes group		14	
03600	Oligochaeta	+	82820	Cryptochironomus sp		+	
04510	Hirudinea	+	83040	Dicrotendipes neomodestus		14 +	
06201	Hyalella azteca	+	83300	Glyptotendipes (G.) sp		57 +	
11130	Baetis intercalaris	640 +	84000	Parachironomus sp		14	
12200	Isonychia sp	+	84039	Parachironomus frequens group		14	
13400	Stenacron sp	+	84450	Polypedilum (Uresipedilum) flavum		458 +	
13510	Maccaffertium exiguum	4	84470	Polypedilum (P.) illinoense		+	
13521	Stenonema femoratum	1 +	84540	Polypedilum (Tripodura) scalaenum group		14 +	
13561	Maccaffertium pulchellum	7 +					
16700	Tricorythodes sp	167 +	85625	Rheotanytarsus sp		386 +	
22300	Argia sp	+	85821	Tanytarsus glabrescens group sp 7		43	
27400	Neurocordulia sp	+	93900	Elimia sp		+	
34300	Neoperla clymene complex	+	96900	Ferrissia sp		+	
34700	Agnetina capitata complex	+	97601	Corbicula fluminea		+	
50315	Chimarra obscura	2 +	98600	Sphaerium sp		+	
51206	Cynellus fraternus	+					
51300	Neureclipsis sp	1	No. Quantitative Taxa: 33		Total Taxa:	58	
52200	Cheumatopsyche sp	1208 +	No. Qualitative Taxa: 48		ICI:	44	
52430	Ceratopsyche morosa group	511 +	Number of Organisms: 3784		Qual EPT:	15	
52510	Hydropsyche aerata	54					
52560	Hydropsyche orris	1					
52570	Hydropsyche simulans	25					
53400	Protoptila sp	+					
53800	Hydroptila sp	+					
59160	Ceraclea spongillovorax	9 +					
59970	Petrophila sp	+					
65800	Berosus sp	+					
68075	Psephenus herricki	1 +					
68901	Macronychus glabratus	1 +					
69400	Stenelmis sp	1 +					
74100	Simulium sp	3 +					
77120	Ablabesmyia mallochi	+					
77130	Ablabesmyia rhamphe group	+					
77750	Hayesomyia senata or Thienemannimyia norena	14 +					
78750	Rheopelopia paramaculipennis	57 +					
80310	Cardiocladius obscurus	+					
80430	Cricotopus (C.) tremulus group	14					
81200	Nanocladius sp	29 +					
81231	Nanocladius (N.) crassicornus or N. (N.)	14 +					

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM06</b>		Collection Date: 08/15/2012		River Code: 11-001		River: Little Miami River		RM: 20.60	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	73 +	85821	Tanytarsus glabrescens group sp 7		89			
03360	Plumatella sp	+	93900	Elimia sp		2 +			
04686	Placobdella papillifera	+	95100	Physella sp		+			
11119	Plauditus dubius or P. virilis	2 +	95900	Gyraulus sp		+			
11130	Baetis intercalaris	41 +	98600	Sphaerium sp		+			
13400	Stenacron sp	+							
13510	Maccaffertium exiguum	5	No. Quantitative Taxa: 23		Total Taxa: 47				
13561	Maccaffertium pulchellum	9 +	No. Qualitative Taxa: 41		ICI: 42				
13570	Maccaffertium terminatum	+	Number of Organisms: 3517		Qual EPT: 12				
16700	Tricorythodes sp	264 +							
22001	Coenagrionidae	+							
22300	Argia sp	+							
27400	Neurocordulia sp	+							
45400	Trichocorixa sp	+							
50315	Chimarra obscura	1 +							
51206	Cynellus fraternus	59 +							
52200	Cheumatopsyche sp	1846 +							
52430	Ceratopsyche morosa group	97 +							
52510	Hydropsyche aerata	20 +							
52530	Hydropsyche depravata group	10							
59407	Nectopsyche candida	+							
59970	Petrophila sp	70 +							
60900	Peltodytes sp	+							
65800	Berosus sp	+							
68075	Psephenus herricki	+							
68601	Ancyronyx variegata	+							
68708	Dubiraphia vittata group	+							
68901	Macronychus glabratus	+							
69400	Stenelmis sp	+							
74100	Simulium sp	1 +							
77130	Ablabesmyia rhamphe group	+							
77750	Hayesomyia senata or Thienemannimyia norena	13							
78655	Procladius (Holotanypus) sp	+							
78750	Rheopelopia paramaculipennis	76							
80310	Cardiocladius obscurus	+							
80350	Corynoneura sp	+							
83000	Dicrotendipes sp	13 +							
83300	Glyptotendipes (G.) sp	51 +							
83310	Glyptotendipes (H.) chelonia	+							
84450	Polypedilum (Uresipedilum) flavum	89 +							
84700	Stenochironomus sp	13							
85625	Rheotanytarsus sp	673 +							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM05</b>		Collection Date: 08/14/2012 River Code: 11-001		River: Little Miami River		RM: 21.40	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.	
01801	Turbellaria	9 +	82130	Thienemanniella similis		16	
03360	Plumatella sp	18 +	82820	Cryptochironomus sp		+	
03600	Oligochaeta	1	83040	Dicrotendipes neomodestus		225	
05800	Caecidotea sp	+	83300	Glyptotendipes (G.) sp		625	
06201	Hyalella azteca	+	83310	Glyptotendipes (H.) chelonia		25	
11119	Plauditus dubius or P. virilis	12 +	84450	Polypedilum (Uresipedilum) flavum		250 +	
11130	Baetis intercalaris	31 +	84470	Polypedilum (P.) illinoense		+	
11650	Proclleon sp (w/ hindwing pads)	+	84540	Polypedilum (Tripodura) scalaenum group		25 +	
13400	Stenacron sp	+	85260	Cladotanytarsus vanderwulpi group		+	
13510	Maccaffertium exiguum	+	85625	Rheotanytarsus sp		650 +	
13561	Maccaffertium pulchellum	1 +	85821	Tanytarsus glabrescens group sp 7		475	
13570	Maccaffertium terminatum	1 +	87540	Hemerodromia sp		8	
16700	Tricorythodes sp	70 +	93900	Elimia sp		1 +	
21300	Hetaerina sp	+	95100	Physella sp		+	
22001	Coenagrionidae	+	96002	Helisoma anceps anceps		+	
22300	Argia sp	1 +	99001	Unionidae		+	
50315	Chimarra obscura	+	99240	Lasmigona complanata		+	
51206	Cyrnellus fraternus	3					
52200	Cheumatopsyche sp	1204 +					
52430	Ceratopsyche morosa group	114 +	No. Quantitative Taxa:	35	Total Taxa:	58	
52510	Hydropsyche aerata	11	No. Qualitative Taxa:	44	ICI:	42	
53400	Protoptila sp	+	Number of Organisms:	4149	Qual EPT:	14	
53501	Hydroptilidae	8 +					
59160	Ceraclea spongillovorax	5					
59407	Nectopsyche candida	1 +					
59970	Petrophila sp	23 +					
65800	Berosus sp	+					
67800	Tropisternus sp	+					
68025	Ectopria sp	1					
68075	Psephenus herricki	+					
68601	Ancyronyx variegata	+					
68901	Macronychus glabratus	9 +					
69400	Stenelmis sp	+					
74100	Simulium sp	1 +					
77130	Ablabesmyia rhamphe group	+					
77750	Hayesomyia senata or Thienemannimyia norena	125					
78750	Rheopelopia paramaculipennis	100 +					
79085	Telopelopia okoboji	+					
80310	Cardiocladius obscurus	25 +					
80430	Cricotopus (C.) tremulus group	50					
81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"	25					

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM04</b>		Collection Date: 08/14/2012		River Code: 11-001		River: Little Miami River		RM: 21.80	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	20 +	84470	Polypedium (P.) illinoense		+			
03073	Lophopodella carteri	+	84540	Polypedium (Tripodura) scalaenum group		23			
03360	Plumatella sp	12 +	84700	Stenochironomus sp		68			
03600	Oligochaeta	84	84790	Tribelos fuscicorne		113			
04666	Helobdella papillata	+	84960	Pseudochironomus sp		45			
11200	Callibaetis sp	+	85230	Cladotanytarsus mancus group		23			
11650	Proclleon sp (w/ hindwing pads)	1	85625	Rheotanytarsus sp		135			
11670	Proclleon viridoculare	+	85800	Tanytarsus sp		23			
13400	Stenacron sp	6 +	85821	Tanytarsus glabrescens group sp 7		248 +			
13510	Maccaffertium exiguum	3	93900	Elimia sp		2 +			
13521	Stenonema femoratum	1	97601	Corbicula fluminea		+			
16700	Tricorythodes sp	64 +							
22001	Coenagrionidae	+							
22300	Argia sp	1 +	No. Quantitative Taxa: 35		Total Taxa: 53				
25010	Hagenius brevistylus	+	No. Qualitative Taxa: 29		ICI: 32				
27400	Neurocordulia sp	+	Number of Organisms: 2889		Qual EPT: 8				
51206	Cynellus fraternus	272 +							
51300	Neureclipsis sp	+							
52200	Cheumatopsyche sp	183							
53800	Hydroptila sp	17							
59160	Ceraclea spongillovorax	7							
59407	Nectopsyche candida	2 +							
59500	Oecetis sp	+							
59970	Petrophila sp	1							
60900	Peltodytes sp	+							
65800	Berosus sp	+							
67800	Tropisternus sp	+							
68601	Ancyronyx variegata	+							
68901	Macronychus glabratus	1							
69400	Stenelmis sp	+							
77120	Ablabesmyia mallochi	45							
77130	Ablabesmyia rhamphe group	428 +							
77750	Hayesomyia senata or Thienemannimyia norena	45							
77800	Helopelopia sp	23							
80410	Cricotopus (C.) sp	23							
80430	Cricotopus (C.) tremulus group	+							
81200	Nanocladius sp	23							
82730	Chironomus (C.) decorus group	+							
83040	Dicrotendipes neomodestus	856 +							
83050	Dicrotendipes lucifer	23							
83300	Glyptotendipes (G.) sp	45							
84450	Polypedium (Uresipedilum) flavum	23							



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM03</b>		Collection Date: 08/14/2012		River Code: 11-001		River: Little Miami River		RM: 22.80	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	16 +	81201	Nanocladius (N.) sp		64			
03121	Paludicella articulata	+	82101	Thienemanniella taurocapita		64			
03360	Plumatella sp	3 +	82220	Tvetenia discoloripes group		129			
11119	Plauditus dubius or P. virilis	180 +	82820	Cryptochironomus sp		+			
11130	Baetis intercalaris	676 +	83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)		+			
12200	Isonychia sp	2	84450	Polypedilum (Uresipedilum) flavum		1159 +			
13400	Stenacron sp	+	84470	Polypedilum (P.) illinoense		+			
13510	Maccaffertium exiguum	20 +	84520	Polypedilum (Tripodura) halterale group		+			
13521	Stenonema femoratum	+	85200	Cladotanytarsus sp		+			
13561	Maccaffertium pulchellum	108 +	85625	Rheotanytarsus sp		3862 +			
13570	Maccaffertium terminatum	+	85821	Tanytarsus glabrescens group sp 7		+			
16700	Tricorythodes sp	480 +	93900	Elimia sp		+			
17200	Caenis sp	+	97601	Corbicula fluminea		+			
18100	Anthopotamus sp	+	99240	Lasmigona complanata		+			
22001	Coenagrionidae	+							
22300	Argia sp	+							
24900	Gomphus sp	+	No. Quantitative Taxa: 30		Total Taxa: 56				
34700	Agnetina capitata complex	1	No. Qualitative Taxa: 44		ICI: 50				
45400	Trichocorixa sp	+	Number of Organisms: 12782		Qual EPT: 17				
50315	Chimarra obscura	63 +							
51206	Cynellus fraternus	8 +							
51600	Polycentropus sp	+							
52200	Cheumatopsyche sp	3695 +							
52430	Ceratopsyche morosa group	1702 +							
52510	Hydropsyche aerata	70							
53400	Protoptila sp	32 +							
53800	Hydroptila sp	+							
59500	Oecetis sp	8							
59970	Petrophila sp	116 +							
65800	Berosus sp	+							
68075	Psephenus herricki	+							
68601	Ancyronyx variegata	+							
68901	Macronychus glabratus	1							
69400	Stenelmis sp	1 +							
69713	Lutrochus laticeps	1							
72900	Culex sp	+							
74100	Simulium sp	1 +							
77750	Hayesomyia senata or Thienemannimyia norena	96							
78450	Nilotanypus fimbriatus	64							
78750	Rheopelopia paramaculipennis	96 +							
80001	Orthocladiinae	64							
80310	Cardiocladius obscurus	+							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM02</b>		Collection Date: 08/14/2012		River Code: 11-001		River: Little Miami River		RM: 24.10	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	509 +	82101	Thienemanniella taurocapita		+			
03360	Plumatella sp	7 +	82121	Thienemanniella lobapodema		16			
03600	Oligochaeta	+	82220	Tvetenia discoloripes group		42 +			
11119	Plauditus dubius or P. virilis	24 +	83000	Dicretodipis sp		21			
11130	Baetis intercalaris	115 +	83040	Dicretodipis neomodestus		247			
11670	Procladius viridoculare	1	83300	Glyptotendipes (G.) sp		21			
12200	Isonychia sp	2	83310	Glyptotendipes (H.) chelonia		21			
13400	Stenacron sp	3 +	83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)			+		
13510	Maccaffertium exiguum	8 +	84000	Parachironomus sp		21			
13550	Maccaffertium mexicanum integrum	1	84450	Polypedilum (Uresipedilum) flavum		186 +			
13561	Maccaffertium pulchellum	110 +	84470	Polypedilum (P.) illinoense			+		
13570	Maccaffertium terminatum	4 +	84540	Polypedilum (Tripodura) scalaenum group		21			
16700	Tricorythodes sp	182 +	84960	Pseudochironomus sp		42			
18100	Anthopotamus sp	+	85625	Rheotanytarsus sp		413 +			
21300	Hetaerina sp	+	85800	Tanytarsus sp		21 +			
22001	Coenagrionidae	+	85821	Tanytarsus glabrescens group sp 7		225			
22300	Argia sp	3 +	93900	Elimia sp		2 +			
23804	Basiaeschna janata	+	95100	Physella sp		+			
42700	Belostoma sp	+	97601	Corbicula fluminea		3 +			
50315	Chimarra obscura	+	98600	Sphaerium sp		+			
51206	Cynellus fraternus	43	99240	Lasmigona complanata		+			
51300	Neureclipsis sp	8 +							
52200	Cheumatopsyche sp	1641 +							
52430	Ceratopsyche morosa group	131 +							
52510	Hydropsyche aerata	30	No. Quantitative Taxa: 44		Total Taxa: 63				
53501	Hydroptilidae	3	No. Qualitative Taxa: 40		ICI: 48				
59160	Ceraclea spongillovorax	3	Number of Organisms: 4489		Qual EPT: 12				
59500	Oecetis sp	1							
59970	Petrophila sp	92 +							
60900	Peltodytes sp	+							
68075	Psephenus herricki	+							
68901	Macronychus glabratus	9							
69400	Stenelmis sp	8 +							
74100	Simulium sp	+							
77130	Ablabesmyia rhamphe group	21							
77750	Hayesomyia senata or Thienemannimyia norena	83							
77800	Helopelopia sp	21							
78655	Procladius (Holotanypus) sp	+							
78750	Rheopelopia paramaculipennis	103							
80310	Cardiocladius obscurus	+							
80420	Cricotopus (C.) bicinctus	21							
81200	Nanocladius sp	+							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM01</b>		Collection Date: 08/14/2012		River Code: 11-001		River: Little Miami River		RM: 27.80	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	33 +	77750	Hayesomyia senata or		313			
03000	Extroprocta	3 +		Thienemannimyia norena					
03600	Oligochaeta	8	78655	Procladius (Holotanypus) sp				+	
06201	Hyalella azteca	1	78750	Rheopelopia paramaculipennis		45		+	
11020	Acerpenna pygmaea	1	81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"		22			
11119	Plauditus dubius or P. virilis	+	82101	Thienemanniella taurocapita		24			
11130	Baetis intercalaris	123 +	82820	Cryptochironomus sp				+	
11200	Callibaetis sp	+	83040	Dicrotendipes neomodestus		603		+	
11620	Paracloeodes sp 2	+	83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)				+	
12200	Isonychia sp	+	84450	Polypedilum (Uresipedilum) flavum		89			
13400	Stenacron sp	4 +	84470	Polypedilum (P.) illinoense				+	
13510	Maccaffertium exiguum	2	85265	Cladotanytarsus vanderwulpi group Type 5				+	
13521	Stenonema femoratum	1 +	85625	Rheotanytarsus sp		335		+	
13561	Maccaffertium pulchellum	26 +	85821	Tanytarsus glabrescens group sp 7		514			
13570	Maccaffertium terminatum	28 +	87540	Hemerodromia sp		8			
16700	Tricorythodes sp	336 +	93900	Elimia sp		9		+	
21300	Hetaerina sp	+	96900	Ferrissia sp				+	
22001	Coenagrionidae	+	97601	Corbicula fluminea				+	
22300	Argia sp	+	97710	Dreissena polymorpha				+	
26700	Macromia sp	+	99001	Unionidae				+	
27307	Epiptera (Epicordulia) princeps	+							
29100	Tramea sp	+							
42700	Belostoma sp	+							
50315	Chimarra obscura	+	No. Quantitative Taxa:		31	Total Taxa:		62	
51206	Cynellus fraternus	1	No. Qualitative Taxa:		48	ICI:		44	
51300	Neureclipsis sp	+	Number of Organisms:		3139	Qual EPT:		19	
51600	Polycentropus sp	1 +							
52200	Cheumatopsyche sp	520 +							
52430	Ceratopsyche morosa group	46 +							
52510	Hydropsyche aerata	+							
53400	Protophila sp	+							
53800	Hydroptila sp	16 +							
59160	Ceraclea spongillovorax	1							
59580	Oecetis persimilis	+							
59970	Petrophila sp	3 +							
60900	Peltodytes sp	+							
65800	Berosus sp	+							
68075	Psephenus herricki	+							
68901	Macronychus glabratus	+							
69400	Stenelmis sp	+							
69713	Lutrochus laticeps	1							
74501	Ceratopogonidae	+							
77120	Ablabesmyia mallochii	22							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM98**      Collection Date: 08/25/2012   River Code: 11-002   River: Clough Creek      RM: 0.40

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	+				
22300	Argia sp	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52430	Ceratopsyche morosa group	+				
52530	Hydropsyche depravata group	+				
53800	Hydroptila sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
74100	Simulium sp	+				
79100	Thienemannimyia group	+				
82820	Cryptochironomus sp	+				
83040	Dicrotendipes neomodestus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
85625	Rheotanytarsus sp	+				
85800	Tanytarsus sp	+				

No. Quantitative Taxa:	0	Total Taxa:	19
No. Qualitative Taxa:	19	ICI:	G
Number of Organisms:	0	Qual EPT:	8

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM97</b>		Collection Date: 08/28/2012		River Code: 11-002		River: Clough Creek		RM: 1.20			
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.					
01801	Turbellaria	+									
03600	Oligochaeta	4									
11120	Baetis flavistriga	11 +									
11130	Baetis intercalaris	43 +									
13521	Stenonema femoratum	+									
21200	Calopteryx sp	+									
22001	Coenagrionidae	+									
50315	Chimarra obscura	81 +									
52200	Cheumatopsyche sp	245 +									
52430	Ceratopsyche morosa group	52 +									
52530	Hydropsyche depravata group	61 +									
53800	Hydroptila sp	4									
66500	Enochrus sp	4									
68075	Psephenus herricki	+									
68130	Helichus sp	+									
74100	Simulium sp	1									
77120	Ablabesmyia mallochi	+									
77750	Hayesomyia senata or Thienemannimyia norena	4									
78599	Pentaneura sp	4 +									
83040	Dicrotendipes neomodestus	9 +									
83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)	18									
83840	Microtendipes pedellus group	+									
84450	Polypedilum (Uresipedilum) flavum	215 +									
84470	Polypedilum (P.) illinoense	4 +									
84540	Polypedilum (Tripodura) scalaenum group	9									
85625	Rheotanytarsus sp	58									
85800	Tanytarsus sp	+									
85821	Tanytarsus glabrescens group sp 7	4									
<hr/>											
No. Quantitative Taxa:	19	Total Taxa:	28								
No. Qualitative Taxa:	19	ICI:	34								
Number of Organisms:	831	Qual EPT:	7								

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM96**      Collection Date: 07/30/2012   River Code: 11-002   River: Clough Creek      RM: 3.10

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
11120	Baetis flavistriga	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52430	Ceratopsyche morosa group	+				
52530	Hydropsyche depravata group	+				
53800	Hydroptila sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
74100	Simulium sp	+				
79100	Thienemannimyia group	+				
80411	Cricotopus (C.) sp nr. absurdus	+				
83040	Dicrotendipes neomodestus	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84960	Pseudochironomus sp	+				
85001	Tanytarsini	+				
85625	Rheotanytarsus sp	+				
85821	Tanytarsus glabrescens group sp 7	+				

No. Quantitative Taxa:	0	Total Taxa:	19
No. Qualitative Taxa:	19	ICI:	G
Number of Organisms:	0	Qual EPT:	6

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM95**      Collection Date: 07/30/2012   River Code: 11-002   River: Clough Creek      RM: 3.20

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
05800	Caecidotea sp	+				
06810	Gammarus fasciatus	+				
11120	Baetis flavistriga	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
77500	Conchapelopia sp	+				
78599	Pentaneura sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
85625	Rheotanytarsus sp	+				

No. Quantitative Taxa:	0	Total Taxa:	11
No. Qualitative Taxa:	11	ICI:	F
Number of Organisms:	0	Qual EPT:	3

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM99**      Collection Date: 07/25/2012   River Code: 11-002   River: Clough Creek      RM: 4.60

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
11120	Baetis flavistriga	+				
21200	Calopteryx sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
81650	Parametrioctenus sp	+				
83040	Dicrotendipes neomodestus	+				
83840	Microtendipes pedellus group	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
85625	Rheotanytarsus sp	+				
96120	Menetus (Micromenetus) dilatatus	+				

No. Quantitative Taxa:	0	Total Taxa:	13
No. Qualitative Taxa:	13	ICI:	F
Number of Organisms:	0	Qual EPT:	3



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM94**      Collection Date: 07/31/2012   River Code: 11-003   River: McCullough Run      RM: 1.30

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
04901	Erpobdellidae	+				
08200	Orconectes sp	+				
21200	Calopteryx sp	+				
22001	Coenagrionidae	+				
65510	Hydrobiinae	+				
69400	Stenelmis sp	+				
77500	Conchapelopia sp	+				
83040	Dicrotendipes neomodestus	+				
95100	Physella sp	+				

No. Quantitative Taxa:	0	Total Taxa:	9
No. Qualitative Taxa:	9	ICI:	VP
Number of Organisms:	0	Qual EPT:	0

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM79**      Collection Date: 08/20/2012   River Code: 11-004   River: Duck Creek      RM: 0.90

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
82730	Chironomus (C.) decorus group	+				
84470	Polypedilum (P.) illinoense	+				
96100	Menetus (Micromenetus) sp	+				

No. Quantitative Taxa:	0	Total Taxa:	5
No. Qualitative Taxa:	5	ICI:	VP
Number of Organisms:	0	Qual EPT:	0

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM77**      Collection Date: 08/20/2012   River Code: 11-004   River: Duck Creek      RM: 1.80

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
04901	Erpobdellidae	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
22001	Coenagrionidae	+				
27500	Somatochlora sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
77120	Ablabesmyia mallochi	+				
77500	Conchapelopia sp	+				
78655	Procladius (Holotanypus) sp	+				
80420	Cricotopus (C.) bicinctus	+				
82730	Chironomus (C.) decorus group	+				
82820	Cryptochironomus sp	+				
83003	Dicrotendipes fumidus	+				
83040	Dicrotendipes neomodestus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84470	Polypedilum (P.) illinoense	+				
84540	Polypedilum (Tripodura) scalaenum group	+				

No. Quantitative Taxa:	0	Total Taxa:	20
No. Qualitative Taxa:	20	ICI:	F
Number of Organisms:	0	Qual EPT:	4

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM76**      Collection Date: 08/20/2012   River Code: 11-004   River: Duck Creek      RM: 2.90

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	65 +				
03600	Oligochaeta	13 +				
04663	Helobdella papillata	+				
04964	Mooreobdella microstoma	1 +				
05800	Caecidotea sp	3				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
21200	Calopteryx sp	+				
22001	Coenagrionidae	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
53800	Hydroptila sp	+				
72150	Pericoma sp	3				
72700	Anopheles sp	+				
74100	Simulium sp	+				
74501	Ceratopogonidae	3				
77120	Ablabesmyia mallochi	+				
77500	Conchapelopia sp	13				
80420	Cricotopus (C.) bicinctus	+				
83040	Dicrotendipes neomodestus	55				
84315	Phaenopsectra flavipes	4				
84450	Polypedilum (Uresipedilum) flavum	170 +				
84470	Polypedilum (P.) illinoense	8 +				
84960	Pseudochironomus sp	8				
85821	Tanytarsus glabrescens group sp 7	102				
86501	Stratiomyidae	8				
95100	Physella sp	+				

No. Quantitative Taxa:	14	Total Taxa:	27
No. Qualitative Taxa:	18	ICI:	18
Number of Organisms:	456	Qual EPT:	5

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM75**      Collection Date: 09/19/2012   River Code: 11-004   River: Duck Creek      RM: 3.30

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
04901	Erpobdellidae	+				
06904	Synurella dentata	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
21200	Calopteryx sp	+				
21300	Hetaerina sp	+				
22001	Coenagrionidae	+				
22300	Argia sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
63900	Laccophilus sp	+				
66500	Enochrus sp	+				
80420	Cricotopus (C.) bicinctus	+				
84470	Polypedilum (P.) illinoense	+				
95100	Physella sp	+				

No. Quantitative Taxa:	0	Total Taxa:	17
No. Qualitative Taxa:	17	ICI:	F
Number of Organisms:	0	Qual EPT:	4

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM73**      Collection Date: 09/09/2012   River Code: 11-004   River: Duck Creek      RM: 4.40

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
11120	Baetis flavistriga	+				
52200	Cheumatopsyche sp	+				
68130	Helichus sp	+				
69400	Stenelmis sp	+				
77500	Conchapelopia sp	+				
80415	Cricotopus (C.) absurdus	+				
80420	Cricotopus (C.) bicinctus	+				
83003	Dicrotendipes fumidus	+				
83040	Dicrotendipes neomodestus	+				
84470	Polypedilum (P.) illinoense	+				

No. Quantitative Taxa:	0	Total Taxa:	12
No. Qualitative Taxa:	12	ICI:	P
Number of Organisms:	0	Qual EPT:	2

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM72**      Collection Date: 09/19/2012 River Code: 11-004 River: Duck Creek      RM: 4.60

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
04666	Helobdella papillata	+				
04960	Mooreobdella sp	+				
05900	Lirceus sp	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
21200	Calopteryx sp	+				
22001	Coenagrionidae	+				
22300	Argia sp	+				
28810	Pantala flavescens	+				
63900	Laccophilus sp	+				
66500	Enochrus sp	+				
67800	Tropisternus sp	+				
77500	Conchapelopia sp	+				
77750	Hayesomyia senata or Thienemannimyia norena	+				
80420	Cricotopus (C.) bicinctus	+				
80470	Cricotopus (C.) or Orthocladius (O.) sp	+				
82710	Chironomus (C.) sp	+				
82730	Chironomus (C.) decorus group	+				
83003	Dicrotendipes fumidus	+				
83040	Dicrotendipes neomodestus	+				
84470	Polypedilum (P.) illinoense	+				
95100	Physella sp	+				

No. Quantitative Taxa:	0	Total Taxa:	24
No. Qualitative Taxa:	24	ICI:	P
Number of Organisms:	0	Qual EPT:	2

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM78**      Collection Date: 09/22/2012   River Code: 11-004   River: Duck Creek      RM: 5.20

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
53800	Hydroptila sp	+				
72101	Psychodidae	+				
80411	Cricotopus (C.) sp nr. absurdus	+				
80420	Cricotopus (C.) bicinctus	+				
80430	Cricotopus (C.) tremulus group	+				
80510	Cricotopus (Isocladius) sylvestris group	+				
83040	Dicrotendipes neomodestus	+				
84470	Polypedilum (P.) illinoense	+				
95100	Physella sp	+				

No. Quantitative Taxa: 0      Total Taxa: 10  
 No. Qualitative Taxa: 10      ICI: VP  
 Number of Organisms: 0      Qual EPT: 1



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM71**      Collection Date: 09/23/2012   River Code: 11-004   River: Duck Creek      RM: 6.00

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
04960	Mooreobdella sp	+				
82710	Chironomus (C.) sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84470	Polypedilum (P.) illinoense	+				
95100	Physella sp	+				

No. Quantitative Taxa: 0      Total Taxa: 8  
 No. Qualitative Taxa: 8      ICI: VP  
 Number of Organisms: 0      Qual EPT: 0

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM67**      Collection Date: 07/17/2012   River Code: 11-005   River: Dry Run      RM: 2.50

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05800	Caecidotea sp	+				
06810	Gammarus fasciatus	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	+				
50315	Chimarra obscura	+				
51600	Polycentropus sp	+				
52200	Cheumatopsyche sp	+				
52430	Ceratopsyche morosa group	+				
52530	Hydropsyche depravata group	+				
68075	Psephenus herricki	+				
68700	Dubiraphia sp	+				
68901	Macronychus glabratus	+				
69400	Stenelmis sp	+				
74100	Simulium sp	+				
77800	Helopelopia sp	+				
78655	Procladius (Holotanypus) sp	+				
83840	Microtendipes pedellus group	+				
84450	Polypedilum (Uresipedilum) flavum	+				
85625	Rheotanytarsus sp	+				
85821	Tanytarsus glabrescens group sp 7	+				
95100	Physella sp	+				

No. Quantitative Taxa: 0      Total Taxa: 24

No. Qualitative Taxa: 24      ICI: G

Number of Organisms: 0      Qual EPT: 8

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM66**      Collection Date: 07/17/2012   River Code: 11-005   River: Dry Run      RM: 4.10

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
05800	Caecidotea sp	+				
06904	Synurella dentata	+				
11120	Baetis flavistriga	+				
13521	Stenonema femoratum	+				
51600	Polycentropus sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
53800	Hydroptila sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
74100	Simulium sp	+				
78599	Pentaneura sp	+				
80001	Orthoclaadiinae	+				
83840	Microtendipes pedellus group	+				
84450	Polypedilum (Uresipedilum) flavum	+				
85625	Rheotanytarsus sp	+				
85800	Tanytarsus sp	+				
94400	Fossaria sp	+				

No. Quantitative Taxa:	0	Total Taxa:	19
No. Qualitative Taxa:	19	ICI:	G
Number of Organisms:	0	Qual EPT:	6

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM70**      Collection Date: 07/31/2012   River Code: 11-005   River: Dry Run      RM: 5.60

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
03600	Oligochaeta	+				
06700	Crangonyx sp	+				
11120	Baetis flavistriga	+				
50301	Chimarra aterrima	+				
52200	Cheumatopsyche sp	+				
53501	Hydroptilidae	+				
71900	Tipula sp	+				
80420	Cricotopus (C.) bicinctus	+				
83040	Dicrotendipes neomodestus	+				
83840	Microtendipes pedellus group	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84470	Polypedilum (P.) illinoense	+				
85500	Paratanytarsus sp	+				
85625	Rheotanytarsus sp	+				
95100	Physella sp	+				

No. Quantitative Taxa: 0      Total Taxa: 15

No. Qualitative Taxa: 15      ICI:

Number of Organisms: 0      Qual EPT: 4

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM52</b>		Collection Date: 08/05/2012		River Code: 11-007		River: Sycamore Creek		RM: 0.20	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
03600	Oligochaeta	+							
06201	Hyalella azteca	+							
11130	Baetis intercalaris	+							
13521	Stenonema femoratum	+							
17200	Caenis sp	+							
22300	Argia sp	+							
50315	Chimarra obscura	+							
51300	Neureclipsis sp	+							
52200	Cheumatopsyche sp	+							
52430	Ceratopsyche morosa group	+							
52530	Hydropsyche depravata group	+							
68075	Psephenus herricki	+							
69400	Stenelmis sp	+							
72700	Anopheles sp	+							
77500	Conchapelopia sp	+							
77750	Hayesomyia senata or Thienemannimyia norena	+							
80420	Cricotopus (C.) bicinctus	+							
81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"	+							
82730	Chironomus (C.) decorus group	+							
82820	Cryptochironomus sp	+							
83040	Dicrotendipes neomodestus	+							
83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)	+							
84450	Polypedilum (Uresipedilum) flavum	+							
84470	Polypedilum (P.) illinoense	+							
85625	Rheotanytarsus sp	+							
85821	Tanytarsus glabrescens group sp 7	+							
95100	Physella sp	+							
<hr/>									
No. Quantitative Taxa:	0	Total Taxa:	27						
No. Qualitative Taxa:	27	ICI:	MG						
Number of Organisms:	0	Qual EPT:	8						

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM51</b>		Collection Date: 08/15/2012		River Code: 11-007		River: Sycamore Creek		RM: 0.30	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01320	Hydra sp	8							
01801	Turbellaria	1 +							
02600	Nematomorpha	+							
03600	Oligochaeta	+							
11001	Baetidae	8							
11120	Baetis flavistriga	+							
11130	Baetis intercalaris	+							
13521	Stenonema femoratum	43 +							
17200	Caenis sp	1 +							
22300	Argia sp	+							
50301	Chimarra aterrima	+							
50315	Chimarra obscura	+							
51300	Neureclipsis sp	+							
52001	Hydropsychidae	8							
52200	Cheumatopsyche sp	+							
52430	Ceratopsyche morosa group	+							
52530	Hydropsyche depravata group	+							
53800	Hydroptila sp	+							
68075	Psephenus herricki	+							
68700	Dubiraphia sp	1							
69400	Stenelmis sp	+							
74650	Atrichopogon sp	+							
77120	Ablabesmyia mallochii	106							
77500	Conchapelopia sp	+							
77800	Helopelopia sp	+							
78450	Nilotanytus fimbriatus	+							
78750	Rheopelopia paramaculipennis	+							
82730	Chironomus (C.) decorus group	71							
82820	Cryptochironomus sp	18							
83040	Dicrotendipes neomodestus	901 +							
83840	Microtendipes pedellus group	+							
84210	Paratendipes albimanus or P. duplicatus	124							
84300	Phaenopsectra obediens group	+							
84315	Phaenopsectra flavipes	106							
84450	Polypedilum (Uresipedilum) flavum	+							
85800	Tanytarsus sp	18 +							

No. Quantitative Taxa:	14	Total Taxa:	36
No. Qualitative Taxa:	27	ICI:	24
Number of Organisms:	1414	Qual EPT:	11

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM50**      Collection Date: 08/05/2012   River Code: 11-007   River: Sycamore Creek      RM: 1.10

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	133 +				
03600	Oligochaeta	+				
08200	Orconectes sp	+				
11120	Baetis flavistriga	8 +				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	34 +				
22300	Argia sp	10 +				
50315	Chimarra obscura	+				
51600	Polycentropus sp	1				
52200	Cheumatopsyche sp	+				
52430	Ceratopsyche morosa group	+				
52530	Hydropsyche depravata group	+				
53800	Hydroptila sp	64				
59970	Petrophila sp	+				
68075	Psephenus herricki	2 +				
69400	Stenelmis sp	8				
72700	Anopheles sp	+				
77001	Tanypodinae	+				
77500	Conchapelopia sp	64				
77800	Helopelopia sp	38				
82100	Thienemanniella sp	26				
82710	Chironomus (C.) sp	+				
83040	Dicrotendipes neomodestus	639 +				
84210	Paratendipes albimanus or P. duplicatus	38 +				
84300	Phaenopsectra obediens group	13				
84450	Polypedilum (Uresipedilum) flavum	77 +				
84960	Pseudochironomus sp	26				
85625	Rheotanytarsus sp	+				

No. Quantitative Taxa: 16      Total Taxa: 28  
 No. Qualitative Taxa: 20      ICI: 24  
 Number of Organisms: 1181      Qual EPT: 7

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM49**      Collection Date: 08/05/2012   River Code: 11-007   River: Sycamore Creek      RM: 1.50

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	1 +				
03600	Oligochaeta	+				
05800	Caecidotea sp	+				
08601	Hydrachnidia	4				
11120	Baetis flavistriga	+				
13521	Stenonema femoratum	1 +				
15000	Paraleptophlebia sp	+				
16700	Tricorythodes sp	1				
17200	Caenis sp	+				
22300	Argia sp	+				
50301	Chimarra aterrima	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	2 +				
52430	Ceratopsyche morosa group	+				
52530	Hydropsyche depravata group	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
77120	Ablabesmyia mallochi	14 +				
78200	Larsia sp	1				
78450	Nilotanytus fimbriatus	+				
83040	Dicrotendipes neomodestus	35 +				
83840	Microtendipes pedellus group	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84315	Phaenopsectra flavipes	5				
84450	Polypedilum (Uresipedilum) flavum	+				
85625	Rheotanytarsus sp	2				

No. Quantitative Taxa:	10	Total Taxa:	26
No. Qualitative Taxa:	21	ICI:	24
Number of Organisms:	66	Qual EPT:	9



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM48**      Collection Date: 09/05/2012   River Code: 11-007   River: Sycamore Creek      RM: 2.40

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05800	Caecidotea sp	+				
06700	Crangonyx sp	+				
11120	Baetis flavistriga	+				
13521	Stenonema femoratum	+				
21200	Calopteryx sp	+				
50301	Chimarra aterrima	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68025	Ectopria sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
71900	Tipula sp	+				
77120	Ablabesmyia mallochi	+				
77500	Conchapelopia sp	+				
77800	Helopelopia sp	+				
83040	Dicrotendipes neomodestus	+				
83840	Microtendipes pedellus group	+				
84315	Phaenopsectra flavipes	+				
85625	Rheotanytarsus sp	+				
94400	Fossaria sp	+				

No. Quantitative Taxa:	0	Total Taxa:	22
No. Qualitative Taxa:	22	ICI:	MG
Number of Organisms:	0	Qual EPT:	5

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM47**      Collection Date: 09/15/2012   River Code: 11-007   River: Sycamore Creek      RM: 3.60

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05800	Caecidotea sp	+				
06700	Crangonyx sp	+				
07701	Cambaridae	+				
21200	Calopteryx sp	+				
28001	Libellulidae	+				
50301	Chimarra aterrima	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
69400	Stenelmis sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84470	Polypedilum (P.) illinoense	+				
85625	Rheotanytarsus sp	+				

No. Quantitative Taxa: 0      Total Taxa: 15

No. Qualitative Taxa: 15      ICI: F

Number of Organisms: 0      Qual EPT: 3

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM61**      Collection Date: 08/23/2012   River Code: 11-008   River: North Branch Sycamore   RM: 0.05

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	2 +				
03600	Oligochaeta	1 +				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	6 +				
13400	Stenacron sp	3				
13521	Stenonema femoratum	58 +				
17200	Caenis sp	1 +				
21200	Calopteryx sp	1 +				
22300	Argia sp	7 +				
50315	Chimarra obscura	1 +				
52200	Cheumatopsyche sp	8 +				
52430	Ceratopsyche morosa group	+				
52530	Hydropsyche depravata group	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
77120	Ablabesmyia mallochi	2 +				
77500	Conchapelopia sp	5 +				
77750	Hayesomyia senata or Thienemannimyia norena	5 +				
77800	Helopelopia sp	7 +				
78450	Nilotanytus fimbriatus	2 +				
82141	Thienemanniella xena	2				
83040	Dicrotendipes neomodestus	5 +				
83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)	2 +				
84300	Phaenopsectra obediens group	9				
84450	Polypedilum (Uresipedilum) flavum	7 +				
84460	Polypedilum (P.) fallax group	21				
85625	Rheotanytarsus sp	+				
85800	Tanytarsus sp	2 +				

No. Quantitative Taxa:	22	Total Taxa:	28
No. Qualitative Taxa:	24	ICI:	36
Number of Organisms:	157	Qual EPT:	8

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM60**      Collection Date: 08/21/2012   River Code: 11-008   River: North Branch Sycamore   RM: 0.50

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05800	Caecidotea sp	3				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	26	+			
17200	Caenis sp	6	+			
22001	Coenagrionidae	+				
22300	Argia sp	+				
50315	Chimarra obscura	+				
51300	Neureclipsis sp	+				
52001	Hydropsychidae	8				
52200	Cheumatopsyche sp	+				
52430	Ceratopsyche morosa group	+				
52530	Hydropsyche depravata group	+				
59970	Petrophila sp	1	+			
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
77120	Ablabesmyia mallochi	11	+			
77500	Conchapelopia sp	+				
77750	Hayesomyia senata or Thienemannimyia norena	14				
77800	Helopelopia sp	7	+			
80420	Cricotopus (C.) bicinctus	+				
82880	Cryptotendipes sp	4				
83040	Dicrotendipes neomodestus	104				
83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)	18				
84210	Paratendipes albimanus or P. duplicatus	29	+			
84300	Phaenopsectra obediens group	4				
84315	Phaenopsectra flavipes	7				
84450	Polypedilum (Uresipedilum) flavum	+				
84540	Polypedilum (Tripodura) scalaenum group	14				
85720	Stempellinella n.sp nr. flavidula	7				
85800	Tanytarsus sp	+				
85821	Tanytarsus glabrescens group sp 7	79				

No. Quantitative Taxa:	17	Total Taxa:	34
No. Qualitative Taxa:	23	ICI:	34
Number of Organisms:	342	Qual EPT:	9

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM59**      Collection Date: 08/28/2012   River Code: 11-008   River: North Branch Sycamore   RM: 2.00

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	+				
17200	Caenis sp	+				
22300	Argia sp	+				
50301	Chimarra aterrima	+				
50315	Chimarra obscura	+				
51600	Polycentropus sp	+				
52200	Cheumatopsyche sp	+				
52430	Ceratopsyche morosa group	+				
68075	Psephenus herricki	+				
77120	Ablabesmyia mallochi	+				
77500	Conchapelopia sp	+				
77800	Helopelopia sp	+				
83040	Dicrotendipes neomodestus	+				
83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)	+				
85800	Tanytarsus sp	+				

No. Quantitative Taxa:	0	Total Taxa:	18
No. Qualitative Taxa:	18	ICI:	G
Number of Organisms:	0	Qual EPT:	9

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM58**      Collection Date: 07/16/2012   River Code: 11-008   River: North Branch Sycamore   RM: 3.70

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05800	Caecidotea sp	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	+				
21200	Calopteryx sp	+				
22001	Coenagrionidae	+				
22300	Argia sp	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52430	Ceratopsyche morosa group	+				
52530	Hydropsyche depravata group	+				
59970	Petrophila sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
74100	Simulium sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
85800	Tanytarsus sp	+				

No. Quantitative Taxa:	0	Total Taxa:	19
No. Qualitative Taxa:	19	ICI:	G
Number of Organisms:	0	Qual EPT:	7

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM57**      Collection Date: 08/31/2012   River Code: 11-008   River: North Branch Sycamore   RM: 5.00

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
04935	Erpobdella punctata punctata	+				
05800	Caecidotea sp	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	+				
21200	Calopteryx sp	+				
22300	Argia sp	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68075	Psephenus herricki	+				
74100	Simulium sp	+				
77500	Conchapelopia sp	+				
77800	Helopelopia sp	+				
84300	Phaenopsectra obediens group	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84540	Polypedilum (Tripodura) scalaenum group	+				
85625	Rheotanytarsus sp	+				
85821	Tanytarsus glabrescens group sp 7	+				

No. Quantitative Taxa:	0	Total Taxa:	21
No. Qualitative Taxa:	21	ICI:	G
Number of Organisms:	0	Qual EPT:	6

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM40</b>		Collection Date: 08/14/2012		River Code: 11-009		River: Polk Run		RM: 0.30	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	+							
06904	Synurella dentata	+							
11130	Baetis intercalaris	+							
13521	Stenonema femoratum	30 +							
21200	Calopteryx sp	+							
22001	Coenagrionidae	+							
22300	Argia sp	+							
50315	Chimarra obscura	+							
51600	Polycentropus sp	+							
52200	Cheumatopsyche sp	+							
52430	Ceratopsyche morosa group	+							
53800	Hydroptila sp	5 +							
68025	Ectopria sp	1							
68075	Psephenus herricki	1 +							
68601	Ancyronyx variegata	+							
69400	Stenelmis sp	12 +							
77120	Ablabesmyia mallochi	62 +							
77500	Conchapelopia sp	10 +							
77750	Hayesomyia senata or Thienemannimyia norena	21 +							
77800	Helopelopia sp	31							
80430	Cricotopus (C.) tremulus group	21							
82820	Cryptochironomus sp	21							
82880	Cryptotendipes sp	+							
83040	Dicrotendipes neomodestus	145 +							
83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)	+							
84210	Paratendipes albimanus or P. duplicatus	176 +							
84300	Phaenopsectra obediens group	31 +							
84315	Phaenopsectra flavipes	41							
84460	Polypedilum (P.) fallax group	31							
84470	Polypedilum (P.) illinoense	+							
84960	Pseudochironomus sp	21							
85500	Paratanytarsus sp	21							
85821	Tanytarsus glabrescens group sp 7	166							
85840	Tanytarsus sepp	10							
95100	Physella sp	+							

No. Quantitative Taxa:	20	Total Taxa:	35
No. Qualitative Taxa:	25	ICI:	28
Number of Organisms:	857	Qual EPT:	7



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM39**      Collection Date: 08/17/2012   River Code: 11-009   River: Polk Run      RM: 3.00

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
03600	Oligochaeta	+				
05800	Caecidotea sp	+				
06201	Hyalella azteca	+				
06904	Synurella dentata	+				
11120	Baetis flavistriga	+				
21200	Calopteryx sp	+				
22300	Argia sp	+				
27500	Somatochlora sp	+				
50301	Chimarra aterrima	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52430	Ceratopsyche morosa group	+				
52530	Hydropsyche depravata group	+				
74100	Simulium sp	+				
81650	Parametricnemus sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
96900	Ferrissia sp	+				

No. Quantitative Taxa:	0	Total Taxa:	17
No. Qualitative Taxa:	17	ICI:	G
Number of Organisms:	0	Qual EPT:	6

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM46**      Collection Date: 09/17/2012   River Code: 11-009   River: Polk Run      RM: 3.20

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
03600	Oligochaeta	+				
05900	Lirceus sp	+				
06700	Crangonyx sp	+				
11120	Baetis flavistriga	+				
21200	Calopteryx sp	+				
22300	Argia sp	+				
50301	Chimarra aterrima	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68025	Ectopria sp	+				
69400	Stenelmis sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
85625	Rheotanytarsus sp	+				
96900	Ferrissia sp	+				

No. Quantitative Taxa:	0	Total Taxa:	16
No. Qualitative Taxa:	16	ICI:	MG
Number of Organisms:	0	Qual EPT:	5

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM38</b>		Collection Date: 08/28/2012		River Code: 11-010		River: O'Bannon Creek		RM: 0.10	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	+	52530	Hydropsyche depravata group		+			
01801	Turbellaria	+	53800	Hydroptila sp		+			
04935	Erpobdella punctata punctata	+	53800	Hydroptila sp		+			
04935	Erpobdella punctata punctata	+	67800	Tropisternus sp		+			
11130	Baetis intercalaris	+	67800	Tropisternus sp		+			
11130	Baetis intercalaris	+	68075	Psephenus herricki		+			
11251	Centroptilum sp (w/ hindwing pads)	+	68075	Psephenus herricki		+			
11251	Centroptilum sp (w/ hindwing pads)	+	69400	Stenelmis sp		+			
12200	Isonychia sp	+	69400	Stenelmis sp		+			
12200	Isonychia sp	+	71900	Tipula sp		+			
13400	Stenacron sp	+	71900	Tipula sp		+			
13400	Stenacron sp	+	77800	Helopelopia sp		+			
13521	Stenonema femoratum	+	77800	Helopelopia sp		+			
13521	Stenonema femoratum	+	83040	Dicrotendipes neomodestus		+			
13561	Maccaffertium pulchellum	+	83040	Dicrotendipes neomodestus		+			
13561	Maccaffertium pulchellum	+	84450	Polypedilum (Uresipedilum) flavum		+			
17200	Caenis sp	+	84450	Polypedilum (Uresipedilum) flavum		+			
17200	Caenis sp	+	84540	Polypedilum (Tripodura) scalaenum group		+			
21200	Calopteryx sp	+	84540	Polypedilum (Tripodura) scalaenum group		+			
21200	Calopteryx sp	+							
21300	Hetaerina sp	+	94400	Fossaria sp		+			
21300	Hetaerina sp	+	94400	Fossaria sp		+			
22001	Coenagrionidae	+	95100	Physella sp		+			
22001	Coenagrionidae	+	95100	Physella sp		+			
22300	Argia sp	+							
22300	Argia sp	+							
27600	Epitheca (Tetragoneuria) sp	+	No. Quantitative Taxa: 0		Total Taxa: 66				
27600	Epitheca (Tetragoneuria) sp	+	No. Qualitative Taxa: 66		ICI: G				
34700	Agnetina capitata complex	+	Number of Organisms: 0		Qual EPT: 32				
34700	Agnetina capitata complex	+							
50315	Chimarra obscura	+							
50315	Chimarra obscura	+							
51206	Cynellus fraternus	+							
51206	Cynellus fraternus	+							
51300	Neureclipsis sp	+							
51300	Neureclipsis sp	+							
51600	Polycentropus sp	+							
51600	Polycentropus sp	+							
52200	Cheumatopsyche sp	+							
52200	Cheumatopsyche sp	+							
52430	Ceratopsyche morosa group	+							
52430	Ceratopsyche morosa group	+							
52530	Hydropsyche depravata group	+							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM37**      Collection Date: 08/28/2012   River Code: 11-010   River: O'Bannon Creek      RM: 1.90

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	27				
11120	Baetis flavistriga	5				
11130	Baetis intercalaris	1119				
13400	Stenacron sp	+				
13521	Stenonema femoratum	+				
17200	Caenis sp	+				
21200	Calopteryx sp	+				
22001	Coenagrionidae	+				
22300	Argia sp	+				
23804	Basiaeschna janata	+				
28500	Libellula sp	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	7				
52430	Ceratopsyche morosa group	243				
52530	Hydropsyche depravata group	108				
53800	Hydroptila sp	+				
59970	Petrophila sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
74100	Simulium sp	+				
77500	Conchapelopia sp	72				
78350	Meropelopia sp	+				
82820	Cryptochironomus sp	+				
84450	Polypedilum (Uresipedilum) flavum	181				
85615	Rheotanytarsus pellucidus	3				
85625	Rheotanytarsus sp	16				
97601	Corbicula fluminea	+				

No. Quantitative Taxa:	10	Total Taxa:	27
No. Qualitative Taxa:	23	ICI:	34
Number of Organisms:	1781	Qual EPT:	9

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM103**      Collection Date: 07/23/2012   River Code: 11-047   River: Trib. to Little Miami R. (RM)   RM:      0.10

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
21200	Calopteryx sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
67800	Tropisternus sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
85625	Rheotanytarsus sp	+				
87400	Stratiomys sp	+				

No. Quantitative Taxa: 0      Total Taxa: 10  
 No. Qualitative Taxa: 10      ICI: P  
 Number of Organisms: 0      Qual EPT: 2

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM53** Collection Date: 08/23/2012 River Code: 11-049 River: Trib. to Sycamore Creek (RM RM: 0.10

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	12 +				
03600	Oligochaeta	2				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	21 +				
17200	Caenis sp	+				
22300	Argia sp	1 +				
50301	Chimarra aterrima	+				
50315	Chimarra obscura	+				
52430	Ceratopsyche morosa group	+				
52530	Hydropsyche depravata group	+				
59970	Petrophila sp	+				
68075	Psephenus herricki	+				
77120	Ablabesmyia mallochi	23				
77500	Conchapelopia sp	2				
77800	Helopelopia sp	7				
78140	Labrundinia pilosella	9				
80410	Cricotopus (C.) sp	+				
80430	Cricotopus (C.) tremulus group	2				
82820	Cryptochironomus sp	9 +				
83040	Dicrotendipes neomodestus	124 +				
83900	Nilothauma sp	2				
84210	Paratendipes albimanus or P. duplicatus	2 +				
84300	Phaenopsectra obediens group	9 +				
84450	Polypedilum (Uresipedilum) flavum	2 +				
84460	Polypedilum (P.) fallax group	5				
84540	Polypedilum (Tripodura) scalaenum group	19				
85500	Paratanytarsus sp	5				
85821	Tanytarsus glabrescens group sp 7	28 +				
98001	Sphaeriidae	+				

No. Quantitative Taxa: 19 Total Taxa: 30

No. Qualitative Taxa: 20 ICI: 22

Number of Organisms: 284 Qual EPT: 8

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM56**      Collection Date: 09/14/2012 River Code: 11-049 River: Trib. to Sycamore Creek (RM RM: 0.30

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05800	Caecidotea sp	+				
06810	Gammarus fasciatus	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	+				
22001	Coenagrionidae	+				
22300	Argia sp	+				
50301	Chimarra aterrima	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
53501	Hydroptilidae	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
77500	Conchapelopia sp	+				
78599	Pentaneura sp	+				
85625	Rheotanytarsus sp	+				

No. Quantitative Taxa:	0	Total Taxa:	19
No. Qualitative Taxa:	19	ICI:	G
Number of Organisms:	0	Qual EPT:	8

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM55**      Collection Date: 09/21/2012   River Code: 11-049   River: Trib. to Sycamore Creek (RM RM: 1.00

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05800	Caecidotea sp	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	+				
21200	Calopteryx sp	+				
22300	Argia sp	+				
50301	Chimarra aterrima	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
59970	Petrophila sp	+				
68025	Ectopria sp	+				
68075	Psephenus herricki	+				
83040	Dicrotendipes neomodestus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84470	Polypedilum (P.) illinoense	+				
85001	Tanytarsini	+				

No. Quantitative Taxa:	0	Total Taxa:	19
No. Qualitative Taxa:	19	ICI:	G
Number of Organisms:	0	Qual EPT:	7



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM74**      Collection Date: 09/09/2012   River Code: 11-051   River: East Fork Duck Creek   RM: 0.15

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05900	Lirceus sp	+				
06700	Crangonyx sp	+				
11120	Baetis flavistriga	+				
21200	Calopteryx sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
78350	Meropelopia sp	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84470	Polypedilum (P.) illinoense	+				

No. Quantitative Taxa:	0	Total Taxa:	11
No. Qualitative Taxa:	11	ICI:	VP
Number of Organisms:	0	Qual EPT:	3

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM84**      Collection Date: 09/10/2012   River Code: 11-051   River: East Fork Duck Creek   RM: 0.60

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
06700	Crangonyx sp	+				
11120	Baetis flavistriga	+				
21200	Calopteryx sp	+				
84450	Polypedilum (Uresipedilum) flavum	+				
85625	Rheotanytarsus sp	+				

No. Quantitative Taxa:	0	Total Taxa:	7
No. Qualitative Taxa:	7	ICI:	VP
Number of Organisms:	0	Qual EPT:	1

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM85**      Collection Date: 09/10/2012   River Code: 11-051   River: East Fork Duck Creek   RM: 1.50

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
06700	Crangonyx sp	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84470	Polypedilum (P.) illinoense	+				
95100	Physella sp	+				

No. Quantitative Taxa: 0      Total Taxa: 6  
 No. Qualitative Taxa: 6      ICI: VP  
 Number of Organisms: 0      Qual EPT: 0

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM69**      Collection Date: 07/31/2012   River Code: 11-064   River: Trib. to Dry Run (RM 4.20)   RM: 0.10

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
06700	Crangonyx sp	+				
11120	Baetis flavistriga	+				
50301	Chimarra aterrima	+				
50315	Chimarra obscura	+				
51600	Polycentropus sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
53800	Hydroptila sp	+				
68025	Ectopria sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
74100	Simulium sp	+				
79400	Zavrelimyia sp	+				
83040	Dicrotendipes neomodestus	+				
83840	Microtendipes pedellus group	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
95100	Physella sp	+				

No. Quantitative Taxa:	0	Total Taxa:	20
No. Qualitative Taxa:	20	ICI:	G
Number of Organisms:	0	Qual EPT:	7

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM21**      Collection Date: 08/29/2012   River Code: 11-066   River: Trib to LMR at RM 13.1   RM: 1.50

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05900	Lirceus sp	+				
08200	Orconectes sp	+				
13521	Stenonema femoratum	+				
21200	Calopteryx sp	+				
50301	Chimarra aterrima	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52315	Diplectrona modesta	+				
52430	Ceratopsyche morosa group	+				
52530	Hydropsyche depravata group	+				
68025	Ectopria sp	+				
68075	Psephenus herricki	+				
83040	Dicrotendipes neomodestus	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				

No. Quantitative Taxa:	0	Total Taxa:	17
No. Qualitative Taxa:	17	ICI:	G
Number of Organisms:	0	Qual EPT:	7

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM20**      Collection Date: 08/29/2012   River Code: 11-067   River: Trib to LMR at RM 7.75   RM: 1.20

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
05900	Lirceus sp	+				
06904	Synurella dentata	+				
07701	Cambaridae	+				
21200	Calopteryx sp	+				
50301	Chimarra aterrima	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
53501	Hydroptilidae	+				
57400	Neophylax sp	+				
68025	Ectopria sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
77750	Hayesomyia senata or Thienemannimyia norena	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
85001	Tanytarsini	+				
85500	Paratanytarsus sp	+				

No. Quantitative Taxa: 0      Total Taxa: 18  
 No. Qualitative Taxa: 18      ICI:  
 Number of Organisms: 0      Qual EPT: 5

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM19**      Collection Date: 08/29/2012   River Code: 11-068   River: Trib (RM2.7) to Trib to LMR   RM:      0.50

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
04664	Helobdella stagnalis	+				
05900	Lirceus sp	+				
06700	Crangonyx sp	+				
77750	Hayesomyia senata or Thienemannimyia norena	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84470	Polypedilum (P.) illinoense	+				

No. Quantitative Taxa:	0	Total Taxa:	8
No. Qualitative Taxa:	8	ICI:	
Number of Organisms:	0	Qual EPT:	0

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM44**      Collection Date: 09/16/2012   River Code: 11-069   River: Trib to Polk Run at RM 1.79   RM: 0.40

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
04935	Erpobdella punctata punctata	+				
05900	Lirceus sp	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	+				
22001	Coenagrionidae	+				
22300	Argia sp	+				
50301	Chimarra aterrima	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68075	Psephenus herricki	+				
74100	Simulium sp	+				
77130	Ablabesmyia rhamphe group	+				
84210	Paratendipes albimanus or P. duplicatus	+				
85625	Rheotanytarsus sp	+				

No. Quantitative Taxa:	0	Total Taxa:	18
No. Qualitative Taxa:	18	ICI:	G
Number of Organisms:	0	Qual EPT:	7



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM41**      Collection Date: 09/06/2012   River Code: 11-069   River: Trib to Polk Run at RM 1.79   RM: 2.60

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
05900	Lirceus sp	+				
06201	Hyalella azteca	+				
06700	Crangonyx sp	+				
11120	Baetis flavistriga	+				
13521	Stenonema femoratum	+				
21200	Calopteryx sp	+				
22300	Argia sp	+				
50301	Chimarra aterrima	+				
51600	Polycentropus sp	+				
52200	Cheumatopsyche sp	+				
60900	Peltodytes sp	+				
68025	Ectopria sp	+				
68075	Psephenus herricki	+				
72700	Anopheles sp	+				
74100	Simulium sp	+				
79400	Zavrelimyia sp	+				
83840	Microtendipes pedellus group	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84315	Phaenopsectra flavipes	+				
84450	Polypedilum (Uresipedilum) flavum	+				
85625	Rheotanytarsus sp	+				

No. Quantitative Taxa: 0      Total Taxa: 22  
 No. Qualitative Taxa: 22      ICI: MG  
 Number of Organisms: 0      Qual EPT: 5

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM43**      Collection Date: 09/24/2012   River Code: 11-070   River: Trib to Polk Run @ RM 0.70   RM: 0.80

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
22001	Coenagrionidae	+				
22300	Argia sp	+				
50301	Chimarra aterrima	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
68025	Ectopria sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
77130	Ablabesmyia rhamphe group	+				
84470	Polypedilum (P.) illinoense	+				
96120	Menetus (Micromenetus) dilatatus	+				

No. Quantitative Taxa:	0	Total Taxa:	15
No. Qualitative Taxa:	15	ICI:	MG
Number of Organisms:	0	Qual EPT:	5

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM42**      Collection Date: 07/16/2012   River Code: 11-070   River: Trib to Polk Run @ RM 0.70   RM: 1.90

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
03600	Oligochaeta	+				
11001	Baetidae	+				
11120	Baetis flavistriga	+				
52200	Cheumatopsyche sp	+				
53800	Hydroptila sp	+				
83040	Dicrotendipes neomodestus	+				
95100	Physella sp	+				

No. Quantitative Taxa:	0	Total Taxa:	7
No. Qualitative Taxa:	7	ICI:	F
Number of Organisms:	0	Qual EPT:	4

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM45**      Collection Date: 09/17/2012   River Code: 11-071   River: Trib RM1.77 to Trib to Polk   RM:      0.20

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
04935	Erpobdella punctata punctata	+				
11120	Baetis flavistriga	+				
21200	Calopteryx sp	+				
22300	Argia sp	+				
50301	Chimarra aterrima	+				
50315	Chimarra obscura	+				
51600	Polycentropus sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68025	Ectopria sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
71900	Tipula sp	+				
77750	Hayesomyia senata or Thienemannimyia norena	+				
81650	Parametriocnemus sp	+				
85625	Rheotanytarsus sp	+				
98001	Sphaeriidae	+				

No. Quantitative Taxa:	0	Total Taxa:	18
No. Qualitative Taxa:	18	ICI:	G
Number of Organisms:	0	Qual EPT:	6

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM63**      Collection Date: 08/31/2012   River Code: 11-073   River: Trib to NBr Sycamore Cr   RM: 0.60

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
00401	Spongillidae	+				
01801	Turbellaria	+				
03600	Oligochaeta	+				
22001	Coenagrionidae	+				
28705	Pachydiplax longipennis	+				
52200	Cheumatopsyche sp	+				
68025	Ectopria sp	+				
69400	Stenelmis sp	+				
77800	Helopelopia sp	+				
82710	Chironomus (C.) sp	+				
83051	Dicrotendipes simpsoni	+				
83300	Glyptotendipes (G.) sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84888	Xenochironomus xenolabis	+				
85625	Rheotanytarsus sp	+				
85821	Tanytarsus glabrescens group sp 7	+				
87501	Empididae	+				
95900	Gyraulus sp	+				

No. Quantitative Taxa:	0	Total Taxa:	19
No. Qualitative Taxa:	19	ICI:	P
Number of Organisms:	0	Qual EPT:	1

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM64**      Collection Date: 09/24/2012   River Code: 11-074   River: Trib to NBr Scyamore Cr @   RM:      1.40

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
70501	Tipulidae	+				
83040	Dicrotendipes neomodestus	+				
96120	Menetus (Micromenetus) dilatatus	+				

No. Quantitative Taxa:	0	Total Taxa:	5
No. Qualitative Taxa:	5	ICI:	
Number of Organisms:	0	Qual EPT:	0

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM80**      Collection Date: 09/09/2012   River Code: 11-075   River: Trib to Duck Creek @ RM   RM:      0.20

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
00401	Spongillidae	+				
03600	Oligochaeta	+				
04901	Erpobdellidae	+				
28800	Pantala sp	+				
77500	Conchapelopia sp	+				
80415	Cricotopus (C.) absurdus	+				
82730	Chironomus (C.) decorus group	+				
83003	Dicrotendipes fumidus	+				
84470	Polypedilum (P.) illinoense	+				
95100	Physella sp	+				

No. Quantitative Taxa: 0      Total Taxa: 10  
 No. Qualitative Taxa: 10      ICI: VP  
 Number of Organisms: 0      Qual EPT: 0

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM89**      Collection Date: 09/23/2012   River Code: 11-076   River: Little Duck Creek      RM: 1.40

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
04664	Helobdella stagnalis	+				
05800	Caecidotea sp	+				
06700	Crangonyx sp	+				
13521	Stenonema femoratum	+				
50315	Chimarra obscura	+				
68075	Psephenus herricki	+				
77120	Ablabesmyia mallochi	+				
79400	Zavrelimyia sp	+				
83040	Dicrotendipes neomodestus	+				
84210	Paratendipes albimanus or P. duplicatus	+				
85800	Tanytarsus sp	+				
85821	Tanytarsus glabrescens group sp 7	+				

No. Quantitative Taxa: 0      Total Taxa: 14

No. Qualitative Taxa: 14      ICI: P

Number of Organisms: 0      Qual EPT: 2



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM90**      Collection Date: 07/24/2012   River Code: 11-076   River: Little Duck Creek      RM: 2.30

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05900	Lirceus sp	+				
13521	Stenonema femoratum	+				
50301	Chimarra aterrima	+				
51600	Polycentropus sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68025	Ectopria sp	+				
68075	Psephenus herricki	+				
71900	Tipula sp	+				
72700	Anopheles sp	+				
81650	Parametricnemus sp	+				
84450	Polypedilum (Uresipedilum) flavum	+				

No. Quantitative Taxa: 0      Total Taxa: 14  
 No. Qualitative Taxa: 14      ICI: MG  
 Number of Organisms: 0      Qual EPT: 5

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM87**      Collection Date: 07/18/2012   River Code: 11-076   River: Little Duck Creek      RM: 2.60

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
05900	Lirceus sp	+				
06700	Crangonyx sp	+				
11120	Baetis flavistriga	+				
13521	Stenonema femoratum	+				
50301	Chimarra aterrima	+				
51600	Polycentropus sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68025	Ectopria sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
74100	Simulium sp	+				
77750	Hayesomyia senata or Thienemannimyia norena	+				
81650	Parametriocnemus sp	+				
83840	Microtendipes pedellus group	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84470	Polypedilum (P.) illinoense	+				
85625	Rheotanytarsus sp	+				

No. Quantitative Taxa:	0	Total Taxa:	20
No. Qualitative Taxa:	20	ICI:	G
Number of Organisms:	0	Qual EPT:	6

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM86**      Collection Date: 07/18/2012   River Code: 11-076   River: Little Duck Creek      RM: 2.70

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05900	Lirceus sp	+				
06700	Crangonyx sp	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	+				
21200	Calopteryx sp	+				
50301	Chimarra aterrima	+				
51600	Polycentropus sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68025	Ectopria sp	+				
68075	Psephenus herricki	+				
72700	Anopheles sp	+				
77500	Conchapelopia sp	+				
83040	Dicrotendipes neomodestus	+				
83840	Microtendipes pedellus group	+				
85625	Rheotanytarsus sp	+				

No. Quantitative Taxa:	0	Total Taxa:	19
No. Qualitative Taxa:	19	ICI:	G
Number of Organisms:	0	Qual EPT:	7

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM82**      Collection Date: 08/28/2012   River Code: 11-077   River: Trib to Little Duck Cr. @ RM   RM:      0.10

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
05900	Lirceus sp	+				
06700	Crangonyx sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
94400	Fossaria sp	+				

No. Quantitative Taxa:	0	Total Taxa:	5
No. Qualitative Taxa:	5	ICI:	
Number of Organisms:	0	Qual EPT:	0

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM93**      Collection Date: 07/31/2012   River Code: 11-078   River: Trib to McCullough Run @   RM: 1.40

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
05800	Caecidotea sp	+				
06810	Gammarus fasciatus	+				
11120	Baetis flavistriga	+				
13521	Stenonema femoratum	+				
21200	Calopteryx sp	+				
22001	Coenagrionidae	+				
51600	Polycentropus sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
77120	Ablabesmyia mallochi	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84315	Phaenopsectra flavipes	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84540	Polypedilum (Tripodura) scalaenum group	+				

No. Quantitative Taxa:	0	Total Taxa:	17
No. Qualitative Taxa:	17	ICI:	MG
Number of Organisms:	0	Qual EPT:	5

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM101**      Collection Date: 07/25/2012   River Code: 11-079   River: Trib to Clough Creek at   RM: 1.05

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
05900	Lirceus sp	+				
06700	Crangonyx sp	+				
11120	Baetis flavistriga	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
74100	Simulium sp	+				
78599	Pentaneura sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84470	Polypedilum (P.) illinoense	+				

No. Quantitative Taxa: 0      Total Taxa: 13

No. Qualitative Taxa: 13      ICI: F

Number of Organisms: 0      Qual EPT: 4

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM102**      Collection Date: 07/30/2012   River Code: 11-080   River: Trib RM0.66 to Trib Clough   RM:      0.20

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
06700	Crangonyx sp	+				
21604	Archilestes grandis	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
72700	Anopheles sp	+				
77750	Hayesomyia senata or Thienemannimyia norena	+				
78350	Meropelopia sp	+				
79400	Zavrelimyia sp	+				
82710	Chironomus (C.) sp	+				
84470	Polypedilum (P.) illinoense	+				
95100	Physella sp	+				

No. Quantitative Taxa:	0	Total Taxa:	13
No. Qualitative Taxa:	13	ICI:	P
Number of Organisms:	0	Qual EPT:	2

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM100**      Collection Date: 07/25/2012   River Code: 11-081   River: Trib RM0.95 to Trib to      RM:      0.10

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
50101	Philopotamidae	+				
52200	Cheumatopsyche sp	+				
74501	Ceratopogonidae	+				
93200	Hydrobiidae	+				

No. Quantitative Taxa:	0	Total Taxa:	5
No. Qualitative Taxa:	5	ICI:	P
Number of Organisms:	0	Qual EPT:	2



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM62**      Collection Date: 07/16/2012   River Code: 11-084   River: Trib to NBr. Sycamore Cr @   RM:      1.65

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
04935	Erpobdella punctata punctata	+				
08200	Orconectes sp	+				
52200	Cheumatopsyche sp	+				
81650	Parametriocnemus sp	+				
83040	Dicrotendipes neomodestus	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
85001	Tanytarsini	+				

No. Quantitative Taxa:	0	Total Taxa:	9
No. Qualitative Taxa:	9	ICI:	
Number of Organisms:	0	Qual EPT:	1

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM36</b>		Collection Date: 08/18/2012		River Code: 11-100		River: East Fork Little Miami River		RM: 0.70	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	15 +	78655	Procladius (Holotanypus) sp		+			
03040	Fredericella sp	+	78750	Rheopelopia paramaculipennis		31			
03360	Plumatella sp	1	80310	Cardiocladius obscurus		+			
03600	Oligochaeta	+	80430	Cricotopus (C.) tremulus group		28			
11020	Acerpenna pygmaea	28	82121	Thienemanniella lobapodema		6			
11119	Plauditus dubius or P. virilis	+	82130	Thienemanniella similis		114 +			
11130	Baetis intercalaris	162 +	82820	Cryptochironomus sp		+			
13000	Leucrocota sp	5 +	83050	Dicrotendipes lucifer		55			
13100	Nixe sp	+	84000	Parachironomus sp		14			
13510	Maccaffertium exiguum	39 +	84450	Polypedilum (Uresipedilum) flavum		290 +			
13521	Stenonema femoratum	21	84520	Polypedilum (Tripodura) halterale group		14			
13550	Maccaffertium mexicanum integrum	9	84700	Stenochironomus sp		111			
13561	Maccaffertium pulchellum	36 +	84960	Pseudochironomus sp		14			
13570	Maccaffertium terminatum	3 +	85615	Rheotanytarsus pellucidus		28 +			
16700	Tricorythodes sp	91 +	85625	Rheotanytarsus sp		249 +			
22001	Coenagrionidae	+	85821	Tanytarsus glabrescens group sp 7		69			
22300	Argia sp	3 +	93900	Elimia sp		6 +			
24107	Nasiaeschna pentacantha	+	97601	Corbicula fluminea		+			
34700	Agnetina capitata complex	+	98001	Sphaeriidae		+			
50315	Chimarra obscura	2 +							
51206	Cynellus fraternus	95 +	No. Quantitative Taxa:		43	Total Taxa:		61	
51300	Neureclipsis sp	19 +	No. Qualitative Taxa:		40	ICI:		50	
52200	Cheumatopsyche sp	1057 +	Number of Organisms:		2982	Qual EPT:		17	
52430	Ceratopsyche morosa group	188 +							
52510	Hydropsyche aerata	3							
52530	Hydropsyche depravata group	5							
52540	Hydropsyche dicantha	3							
52570	Hydropsyche simulans	8							
53800	Hydroptila sp	4 +							
57400	Neophylax sp	+							
59160	Ceraclea spongillovorax	1							
59407	Nectopsyche candida	+							
59970	Petrophila sp	+							
60900	Peltodytes sp	+							
68075	Psephenus herricki	+							
68601	Ancyronyx variegata	+							
68901	Macronychus glabratus	5 +							
69400	Stenelmis sp	1 +							
74100	Simulium sp	6 +							
77750	Hayesomyia senata or Thienemannimyia norena	135							
78140	Labrundinia pilosella	4							
78450	Nilotanypus fimbriatus	4							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM35**      Collection Date: 08/16/2012   River Code: 11-100   River: East Fork Little Miami River   RM: 1.00

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	27 +	77130	Ablabesmyia rhamphe group		9 +
03000	Extroprocta	+	77355	Clinotanypus pinguis		+
05900	Lirceus sp	+	77750	Hayesomyia senata or Thienemannimyia norena		53
11020	Acerpenna pygmaea	13				
11119	Plauditus dubius or P. virilis	+	78750	Rheopelopia paramaculipennis		26
11130	Baetis intercalaris	87 +	80420	Cricotopus (C.) bicinctus		9
13400	Stenacron sp	3	82101	Thienemanniella taurocapita		9
13510	Maccaffertium exiguum	6 +	82121	Thienemanniella lobapodema		+
13521	Stenonema femoratum	26 +	82130	Thienemanniella similis		68 +
13561	Maccaffertium pulchellum	64 +	83002	Dicrotendipes modestus		9
13570	Maccaffertium terminatum	35 +	83040	Dicrotendipes neomodestus		+
16700	Tricorythodes sp	140 +	83300	Glyptotendipes (G.) sp		9
17200	Caenis sp	+	83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)		+
21300	Hetaerina sp	2 +	84450	Polypedilum (Uresipedilum) flavum		316 +
22001	Coenagrionidae	+	84470	Polypedilum (P.) illinoense		+
22300	Argia sp	+	84700	Stenochironomus sp		97
23804	Basiaeschna janata	+	84960	Pseudochironomus sp		9
28500	Libellula sp	+	85265	Cladotanytarsus vanderwulpi group Type 5		+
34700	Agnetina capitata complex	+				
50301	Chimarra aterrima	38	85615	Rheotanytarsus pellucidus		18
50315	Chimarra obscura	+	85625	Rheotanytarsus sp		169 +
51206	Cynellus fraternus	1	85821	Tanytarsus glabrescens group sp 7		26 +
51300	Neureclipsis sp	24 +	93900	Elimia sp		+
51600	Polycentropus sp	+	95100	Physella sp		+
52200	Cheumatopsyche sp	1650 +	97601	Corbicula fluminea		+
52430	Ceratopsyche morosa group	456 +				
52530	Hydropsyche depravata group	20	No. Quantitative Taxa: 36		Total Taxa: 66	
52540	Hydropsyche dicantha	+	No. Qualitative Taxa: 49		ICI: 50	
52570	Hydropsyche simulans	2	Number of Organisms: 3435		Qual EPT: 17	
53800	Hydroptila sp	+				
59140	Ceraclea maculata	1				
59407	Nectopsyche candida	+				
59580	Oecetis persimilis	1				
59970	Petrophila sp	+				
60900	Peltodytes sp	+				
65800	Berosus sp	+				
67800	Tropisternus sp	+				
68075	Psephenus herricki	+				
68601	Ancyronyx variegata	+				
68901	Macronychus glabratus	5 +				
69400	Stenelmis sp	4 +				
74100	Simulium sp	3 +				
77120	Ablabesmyia mallochii	+				

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM34**      Collection Date: 08/18/2012   River Code: 11-100   River: East Fork Little Miami River   RM: 2.00

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	95 +	78750	Rheopelopia paramaculipennis		+
03040	Fredericella sp	+	80350	Corynoneura sp		4 +
03360	Plumatella sp	1	80420	Cricotopus (C.) bicinctus		+
03600	Oligochaeta	24 +	80430	Cricotopus (C.) tremulus group		4
04666	Helobdella papillata	+	81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"		4 +
05900	Lirceus sp	+	82101	Thienemanniella taurocapita		4
06700	Crangonyx sp	+	82121	Thienemanniella lobapodema		8
11001	Baetidae	2	82130	Thienemanniella similis		12 +
11020	Acerpenna pygmaea	+	82820	Cryptochironomus sp		4 +
11130	Baetis intercalaris	+	83002	Dicrotendipes modestus		4
11670	Procloeon viridoculare	+	83040	Dicrotendipes neomodestus		4
13000	Leucrocota sp	1	83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)		+
13400	Stenacron sp	13 +	84450	Polypedilum (Uresipedilum) flavum		71
13510	Maccaffertium exiguum	4	84470	Polypedilum (P.) illinoense		4
13521	Stenonema femoratum	65 +	84540	Polypedilum (Tripodura) scalaenum group		27 +
13561	Maccaffertium pulchellum	3	84651	Stelechomyia perpulchra		4
13570	Maccaffertium terminatum	7 +	84700	Stenochironomus sp		67 +
16700	Tricorythodes sp	17 +	84960	Pseudochironomus sp		8
17200	Caenis sp	+	85615	Rheotanytarsus pellucidus		+
18100	Anthopotamus sp	+	85625	Rheotanytarsus sp		67 +
22001	Coenagrionidae	+	85800	Tanytarsus sp		4
22300	Argia sp	7 +	85821	Tanytarsus glabrescens group sp 7		39 +
50315	Chimarra obscura	5 +	85840	Tanytarsus sepp		4
51206	Cynellus fraternus	42	93200	Hydrobiidae		+
51300	Neureclipsis sp	14 +	93900	Elimia sp		12 +
51600	Polycentropus sp	1 +	95100	Physella sp		4 +
52200	Cheumatopsyche sp	353 +	95501	Planorbidae		+
52430	Ceratopsyche morosa group	+	96900	Ferrissia sp		36 +
53400	Protophila sp	+	97601	Corbicula fluminea		+
53800	Hydroptila sp	4 +				
57400	Neophylax sp	+				
59580	Oecetis persimilis	1 +				
59970	Petrophila sp	+				
68075	Psephenus herricki	+	No. Quantitative Taxa:	48	Total Taxa:	71
68601	Ancyronyx variegata	7 +	No. Qualitative Taxa:	51	ICI:	42
68901	Macronychus glabratus	4 +	Number of Organisms:	1152	Qual EPT:	18
69400	Stenelmis sp	+				
77120	Ablabesmyia mallochi	8				
77130	Ablabesmyia rhamphe group	12 +				
77750	Hayesomyia senata or Thienemannimyia norena	59 +				
77800	Helopelopia sp	4				
78140	Labrundinia pilosella	4				

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM32**      Collection Date: 08/19/2012 River Code: 11-100 River: East Fork Little Miami River RM: 4.30

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	45	80360	Corynoneura "celeripes" (sensu Simpson & Bode, 1980)		+
03040	Fredericella sp	+	80420	Cricotopus (C.) bicinctus		+
03600	Oligochaeta	8 +	81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"		6
04666	Helobdella papillata	+	81650	Parametriocnemus sp		+
08250	Orconectes (Procericambarus) rusticus	+	82121	Thienemanniella lobapodema		6
08601	Hydrachnidia	+	82130	Thienemanniella similis		18
11020	Acerpenna pygmaea	26	82220	Tvetenia discoloripes group		6
11130	Baetis intercalaris	220 +	83002	Dicrotendipes modestus		6
13000	Leucrocuta sp	5	83040	Dicrotendipes neomodestus		6
13400	Stenacron sp	+	84450	Polypedilum (Uresipedilum) flavum		203 +
13521	Stenonema femoratum	87 +	84700	Stenochironomus sp		18
13561	Maccaffertium pulchellum	101 +	84960	Pseudochironomus sp		6
13570	Maccaffertium terminatum	24 +	85265	Cladotanytarsus vanderwulpi group Type 5		+
16700	Tricorythodes sp	74 +	85615	Rheotanytarsus pellucidus		31
21300	Hetaerina sp	4 +	85625	Rheotanytarsus sp		191 +
22001	Coenagrionidae	+	85821	Tanytarsus glabrescens group sp 7		18
22300	Argia sp	1 +	93900	Elimia sp		1 +
27400	Neurocordulia sp	+	95100	Physella sp		+
34700	Agnatina capitata complex	1	96900	Ferrissia sp		+
50315	Chimarra obscura	9 +	97601	Corbicula fluminea		+
51206	Cynellus fraternus	24 +				
51300	Neureclipsis sp	41 +				
51600	Polycentropus sp	1 +				
52200	Cheumatopsyche sp	687 +				
52430	Ceratopsyche morosa group	347 +	No. Quantitative Taxa:	39	Total Taxa:	62
52570	Hydropsyche simulans	2	No. Qualitative Taxa:	43	ICI:	50
53400	Protophila sp	+	Number of Organisms:	2376	Qual EPT:	16
53800	Hydroptila sp	+				
59400	Nectopsyche sp	1				
59407	Nectopsyche candida	+				
59580	Oecetis persimilis	1 +				
59970	Petrophila sp	+				
68075	Psephenus herricki	1 +				
68201	Scirtidae	+				
68601	Ancyronyx variegata	+				
68901	Macronychus glabratus	51 +				
69400	Stenelmis sp	+				
74100	Simulium sp	+				
77130	Ablabesmyia rhamphe group	6				
77750	Hayesomyia senata or Thienemannimyia norena	68				
78450	Nilotanypus fimbriatus	25				
79100	Thienemannimyia group	+				

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM31**      Collection Date: 08/18/2012   River Code: 11-100   River: East Fork Little Miami River   RM: 5.60

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
00401	Spongillidae	+		Thienemannimyia norena		
01801	Turbellaria	3 +	78655	Procladius (Holotanypus) sp		+
03000	Extroprocta	+	78750	Rheopelopia paramaculipennis	42	+
03600	Oligochaeta	5 +	80310	Cardiocladius obscurus		+
04666	Helobdella papillata	+	80360	Corynoneura "celeripes" (sensu Simpson & Bode, 1980)	16	
08601	Hydrachnidia	+	80420	Cricotopus (C.) bicinctus		21
11020	Acerpenna pygmaea	26 +	80430	Cricotopus (C.) tremulus group		11
11119	Plauditus dubius or P. virilis	4 +	81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"		11
11130	Baetis intercalaris	55 +	82101	Thienemanniella taurocapita		40
11200	Callibaetis sp	+	82121	Thienemanniella lobapodema		11
11670	Procloeon viridoculare	+	82130	Thienemanniella similis		44
13400	Stenacron sp	8 +	82141	Thienemanniella xena		8
13510	Maccaffertium exiguum	1 +	82220	Tvetenia discoloripes group		11
13521	Stenonema femoratum	32	82730	Chironomus (C.) decorus group		+
13570	Maccaffertium terminatum	7 +	83002	Dicrotendipes modestus		42
16700	Tricorythodes sp	57 +	83040	Dicrotendipes neomodestus		158
17200	Caenis sp	1 +	84210	Paratendipes albimanus or P. duplicatus		+
21200	Calopteryx sp	+	84450	Polypedilum (Uresipedilum) flavum		107 +
22001	Coenagrionidae	+	84470	Polypedilum (P.) illinoense		42 +
22300	Argia sp	5 +	84520	Polypedilum (Tripodura) halterale group		53
27400	Neurocordulia sp	1 +	84540	Polypedilum (Tripodura) scalaenum group		+
34700	Agnetina capitata complex	+	84700	Stenochironomus sp		53
50315	Chimarra obscura	13 +	84790	Tribelos fuscicorne		21
51206	Cymellus fraternus	95	84800	Tribelos jucundum		+
51300	Neureclipsis sp	51 +	85230	Cladotanytarsus mancus group		+
51600	Polycentropus sp	3 +	85625	Rheotanytarsus sp		53 +
52200	Cheumatopsyche sp	491 +	85821	Tanytarsus glabrescens group sp 7		63
52430	Ceratopsyche morosa group	51 +	93900	Elimia sp		22 +
53400	Protoptila sp	+	96900	Ferrissia sp		8 +
53800	Hydroptila sp	30 +	97601	Corbicula fluminea		2 +
59500	Oecetis sp	+				
59580	Oecetis persimilis	23				
59740	Trienodes perna	+				
59970	Petrophila sp	+				
65800	Berosus sp	+				
67000	Helophorus sp	+				
67800	Tropisternus sp	+				
68075	Psephenus herricki	+				
68601	Ancyronyx variegata	2 +				
68901	Macronychus glabratus	4 +				
69400	Stenelmis sp	2 +				
77130	Ablabesmyia rhamphe group	+				
77750	Hayesomyia senata or	127				
			No. Quantitative Taxa: 47		Total Taxa: 72	
			No. Qualitative Taxa: 53		ICI: 46	
			Number of Organisms: 1936		Qual EPT: 20	

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM30</b>		Collection Date: 08/18/2012		River Code: 11-100		River: East Fork Little Miami River		RM: 9.10	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
00401	Spongillidae	+	84300	Phaenopsectra obediens group		+			
01320	Hydra sp	8	84450	Polypedilum (Uresipedilum) flavum		403	+		
01801	Turbellaria	91	84470	Polypedilum (P.) illinoense		7	+		
03000	Extroprocta	+	84540	Polypedilum (Tripodura) scalaenum group		21			
03600	Oligochaeta	+	85615	Rheotanytarsus pellucidus		7	+		
08601	Hydrachnidia	8	85625	Rheotanytarsus sp		153	+		
11130	Baetis intercalaris	48	85840	Tanytarsus sepp		7			
11503	Heterocloeon (H.) sp	+	93900	Elimia sp		295	+		
13400	Stenacron sp	9	96900	Ferrissia sp			+		
13510	Maccaffertium exiguum	6	97601	Corbicula fluminea		20	+		
13561	Maccaffertium pulchellum	29	98001	Sphaeriidae		16			
13570	Maccaffertium terminatum	23							
16700	Tricorythodes sp	63							
17200	Caenis sp	+	No. Quantitative Taxa:		37	Total Taxa:		53	
21200	Calopteryx sp	+	No. Qualitative Taxa:		42	ICI:		46	
22300	Argia sp	18	Number of Organisms:		2832	Qual EPT:		17	
27400	Neurocordulia sp	+							
34700	Agnetina capitata complex	38							
48410	Corydalus cornutus	1							
50315	Chimarra obscura	193							
51206	Cynellus fraternus	2							
51300	Neureclipsis sp	4							
52200	Cheumatopsyche sp	496							
52430	Ceratopsyche morosa group	441							
52540	Hydropsyche dicantha	22							
53400	Protoptila sp	65							
53800	Hydroptila sp	10							
59400	Nectopsyche sp	+							
59580	Oecetis persimilis	+							
59970	Petrophila sp	+							
68075	Psephenus herricki	+							
68901	Macronychus glabratus	9							
69400	Stenelmis sp	198							
74100	Simulium sp	9							
77750	Hayesomyia senata or Thienemannimyia norena	76							
77800	Helopelopia sp	14							
78450	Nilotanypus fimbriatus	14							
78750	Rheopelopia paramaculipennis	7							
80310	Cardiocladius obscurus	+							
80420	Cricotopus (C.) bicinctus	+							
82130	Thienemanniella similis	+							
82220	Tvetenia discoloripes group	1							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM29**      Collection Date: 08/18/2012   River Code: 11-100   River: East Fork Little Miami River   RM: 11.00

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	204	85615	Rheotanytarsus pellucidus		93
03040	Fredericella sp	+	93900	Elimia sp		36 +
03600	Oligochaeta	+	96900	Ferrissia sp		16
04663	Helobdella papillata	+	97601	Corbicula fluminea		+
11119	Plauditus dubius or P. virilis	11 +				
11130	Baetis intercalaris	443 +	No. Quantitative Taxa:	28	Total Taxa:	46
11670	Procloeon viridoculare	+	No. Qualitative Taxa:	34	ICI:	44
13400	Stenacron sp	+	Number of Organisms:	3368	Qual EPT:	16
13521	Stenonema femoratum	5 +				
13561	Maccaffertium pulchellum	43 +				
13570	Maccaffertium terminatum	11 +				
16700	Tricorythodes sp	2 +				
22001	Coenagrionidae	+				
22300	Argia sp	1 +				
27400	Neurocordulia sp	+				
34700	Agnetina capitata complex	2 +				
48001	Corydalidae	1				
50315	Chimarra obscura	275 +				
51300	Neureclipsis sp	3 +				
52200	Cheumatopsyche sp	234 +				
52430	Ceratopsyche morosa group	1158 +				
52540	Hydropsyche dicantha	10 +				
53400	Protoptila sp	+				
53800	Hydroptila sp	+				
59160	Ceraclea spongillovorax	1				
59500	Oecetis sp	16				
59970	Petrophila sp	+				
68075	Psephenus herricki	+				
68901	Macronychus glabratus	+				
69400	Stenelmis sp	+				
74100	Simulium sp	5				
77120	Ablabesmyia mallochi	+				
77750	Hayesomyia senata or Thienemannimyia norena	21				
80310	Cardiocladius obscurus	+				
82101	Thienemanniella taurocapita	24				
82220	Tvetenia discoloripes group	10				
82820	Cryptochironomus sp	+				
83040	Dicrotendipes neomodestus	10 +				
84450	Polypedilum (Uresipedilum) flavum	196 +				
84470	Polypedilum (P.) illinoense	+				
84700	Stenochironomus sp	217				
85500	Paratanytarsus sp	320				



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM28**      Collection Date: 08/16/2012   River Code: 11-100   River: East Fork Little Miami River   RM: 13.20

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01320	Hydra sp	1	77750	Hayesomyia senata or		10 +
01801	Turbellaria	1 +		Thienemannimyia norena		
03600	Oligochaeta	8	78450	Nilotanypus fimbriatus		10
08601	Hydrachnidia	+	78750	Rheopelopia paramaculipennis		5 +
11020	Acerpenna pygmaea	2	80310	Cardiocladius obscurus		10 +
11119	Plauditus dubius or P. virilis	2 +	80370	Corynoneura lobata		5
11130	Baetis intercalaris	470 +	80410	Cricotopus (C.) sp		5
11150	Pseudocloeon propinquum	+	80420	Cricotopus (C.) bicinctus		15
13400	Stenacron sp	+	82101	Thienemanniella taurocapita		5 +
13521	Stenonema femoratum	+	82130	Thienemanniella similis		10 +
13561	Maccaffertium pulchellum	23 +	82220	Tvetenia discoloripes group		45 +
13570	Maccaffertium terminatum	158 +	83040	Dicrotendipes neomodestus		5
16700	Tricorythodes sp	8 +	84450	Polypedilum (Uresipedilum) flavum		186 +
21300	Hetaerina sp	1 +	84470	Polypedilum (P.) illinoense		+
22001	Coenagrionidae	+	84700	Stenochironomus sp		5
22300	Argia sp	1 +	85615	Rheotanytarsus pellucidus		5
28500	Libellula sp	+	85625	Rheotanytarsus sp		146 +
34300	Neoperla clymene complex	2 +	93900	Elimia sp		124 +
34700	Agnatina capitata complex	2 +	96900	Ferrissia sp		24 +
43300	Ranatra sp	+	97601	Corbicula fluminea		+
48410	Corydalus cornutus	6 +				
50315	Chimarra obscura	38 +	No. Quantitative Taxa: 42		Total Taxa: 62	
50906	Psychomyia flavida	+	No. Qualitative Taxa: 51		ICI: 52	
51206	Cymellus fraternus	+	Number of Organisms: 2043		Qual EPT: 24	
51300	Neureclipsis sp	4 +				
52200	Cheumatopsyche sp	217 +				
52430	Ceratopsyche morosa group	362 +				
52540	Hydropsyche dicantha	27 +				
53400	Protoptila sp	+				
53800	Hydroptila sp	60 +				
57400	Neophylax sp	+				
57900	Pycnopsyche sp	+				
58505	Helicopsyche borealis	+				
59100	Ceraclea sp	+				
59580	Oecetis persimilis	11 +				
59970	Petrophila sp	1 +				
65800	Berosus sp	+				
68075	Psephenus herricki	+				
68601	Ancyronyx variegata	3				
68901	Macronychus glabratus	11 +				
69400	Stenelmis sp	+				
74100	Simulium sp	9 +				
77500	Conchapelopia sp	+				

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM27**      Collection Date: 08/16/2012   River Code: 11-100   River: East Fork Little Miami River   RM: 13.90

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	3 +	84450	Polypedilum (Uresipedilum) flavum		53 +
04660	Helobdella sp	+	84460	Polypedilum (P.) fallax group		1
05900	Lirceus sp	+	84470	Polypedilum (P.) illinoense		2
08601	Hydrachnidia	1 +	84540	Polypedilum (Tripodura) scalaenum group		+
11119	Plauditus dubius or P. virilis	30				
11130	Baetis intercalaris	279 +	84700	Stenochironomus sp		5 +
11150	Pseudocloeon propinquum	+	85615	Rheotanytarsus pellucidus		+
11650	Proclaeon sp (w/ hindwing pads)	+	85625	Rheotanytarsus sp		91 +
13400	Stenacron sp	+	93900	Elimia sp		7 +
13510	Maccaffertium exiguum	20 +	96900	Ferrissia sp		+
13521	Stenonema femoratum	+	97601	Corbicula fluminea		1 +
13561	Maccaffertium pulchellum	57 +				
13570	Maccaffertium terminatum	12 +	No. Quantitative Taxa: 32		Total Taxa: 53	
16700	Tricorythodes sp	1 +	No. Qualitative Taxa: 47		ICI: 48	
17200	Caenis sp	+	Number of Organisms: 1163		Qual EPT: 22	
21300	Hetaerina sp	+				
22001	Coenagrionidae	+				
22300	Argia sp	+				
34300	Neoperla clymene complex	+				
34700	Agnetina capitata complex	12 +				
48410	Corydalus cornutus	2 +				
50315	Chimarra obscura	3 +				
50906	Psychomyia flavida	2				
52200	Cheumatopsyche sp	81 +				
52430	Ceratopsyche morosa group	327 +				
52530	Hydropsyche depravata group	21				
52540	Hydropsyche dicantha	105 +				
53400	Protoptila sp	+				
53800	Hydroptila sp	3 +				
57400	Neophylax sp	+				
58505	Helicopsyche borealis	1 +				
59300	Mystacides sp	+				
59580	Oecetis persimilis	+				
59970	Petrophila sp	+				
68075	Psephenus herricki	1 +				
68901	Macronychus glabratus	1 +				
69400	Stenelmis sp	1 +				
74100	Simulium sp	4 +				
77130	Ablabesmyia rhamphe group	+				
80001	Orthoclaadiinae	+				
80310	Cardiocladius obscurus	11 +				
82101	Thienemanniella taurocapita	17				
82220	Tvetenia discoloripes group	8 +				

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM26**      Collection Date: 08/16/2012   River Code: 11-100   River: East Fork Little Miami River   RM: 14.90

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01320	Hydra sp	20	77120	Ablabesmyia mallochi		25 +
01801	Turbellaria	2 +	77750	Hayesomyia senata or Thienemannimyia norena		49
05900	Lirceus sp	+	77800	Helopelopia sp		12
06201	Hyaella azteca	+	78140	Labrundinia pilosella		10
08250	Orconectes (Procericambarus) rusticus	+	78655	Procladius (Holotanypus) sp		+
08601	Hydrachnidia	8 +	78750	Rheopelopia paramaculipennis		6 +
11119	Plauditus dubius or P. virilis	119 +	80001	Orthocladiinae		+
11130	Baetis intercalaris	266 +	80310	Cardiocladius obscurus		6 +
11245	Centroptilum sp	+	80430	Cricotopus (C.) tremulus group		31
11645	Proclleon sp	+	82101	Thienemanniella taurocapita		118
11670	Proclleon viridoculare	+	82121	Thienemanniella lobapodema		58
13400	Stenacron sp	34 +	82141	Thienemanniella xena		62
13510	Maccaffertium exiguum	18 +	82220	Tvetenia discoloripes group		+
13521	Stenonema femoratum	34 +	82820	Cryptochironomus sp		+
13561	Maccaffertium pulchellum	47 +	83002	Dicrotendipes modestus		6 +
13570	Maccaffertium terminatum	6 +	83040	Dicrotendipes neomodestus		92 +
16700	Tricorythodes sp	130	83840	Microtendipes pedellus group		12
17200	Caenis sp	16 +	83900	Nilothauma sp		6
22001	Coenagrionidae	+	84280	Phaenopsectra sp or Tribelos sp		+
22300	Argia sp	20 +	84450	Polypedilum (Uresipedilum) flavum		12
27400	Neurocordulia sp	+	84460	Polypedilum (P.) fallax group		12
34300	Neoperla clymene complex	+	84470	Polypedilum (P.) illinoense		+
34700	Agnetina capitata complex	+	84540	Polypedilum (Tripodura) scalaenum group		6 +
48410	Corydalus cornutus	1 +	84700	Stenochironomus sp		68
50315	Chimarra obscura	+	84750	Stictochironomus sp		+
50906	Psychomyia flavida	20	85201	Cladotanytarsus species group A		+
51600	Polycentropus sp	5 +	85615	Rheotanytarsus pellucidus		6
52200	Cheumatopsyche sp	43 +	85625	Rheotanytarsus sp		43
52430	Ceratopsyche morosa group	26 +	85800	Tanytarsus sp		+
52540	Hydropsyche dicantha	4 +	85821	Tanytarsus glabrescens group sp 7		18
53400	Protoptila sp	+	85840	Tanytarsus sepp		6
53800	Hydroptila sp	6 +	93900	Elimia sp		17 +
58505	Helicopsyche borealis	+	95100	Physella sp		2 +
59110	Ceraclea ancylus	+	96900	Ferrissia sp		33 +
59407	Nectopsyche candida	+				
59580	Oecetis persimilis	6 +				
59724	Trienodes injustus	+				
59970	Petrophila sp	2 +	No. Quantitative Taxa:	48	Total Taxa:	77
65810	Berosus striatus	+	No. Qualitative Taxa:	58	ICI:	48
68075	Psephenus herricki	+	Number of Organisms:	1552	Qual EPT:	25
68708	Dubiraphia vittata group	+				
68901	Macronychus glabratus	3 +				
74100	Simulium sp	+				

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM25**      Collection Date: 08/16/2012 River Code: 11-100 River: East Fork Little Miami River RM: 19.50

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+	84450	Polypedilum (Uresipedilum) flavum		58 +
03600	Oligochaeta	8 +	84470	Polypedilum (P.) illinoense		+
06201	Hyalella azteca	+	84490	Polypedilum (Cerobregma) ontario		3
06501	Gammaridae	1	84540	Polypedilum (Tripodura) scalaenum group		+
06700	Crangonyx sp	+				
08250	Orconectes (Procericambarus) rusticus	+	85625	Rheotanytarsus sp		189 +
08601	Hydrachnidia	8 +	87501	Empididae		5
11120	Baetis flavistriga	2 +	93900	Elimia sp		4 +
11130	Baetis intercalaris	276 +	96120	Menetus (Micromenetus) dilatatus		2
13400	Stenacron sp	12 +	96900	Ferrissia sp		+
13521	Stenonema femoratum	+	97601	Corbicula fluminea		1
13561	Maccaffertium pulchellum	29 +				
13570	Maccaffertium terminatum	35 +	No. Quantitative Taxa: 31		Total Taxa: 53	
16700	Tricorythodes sp	1 +	No. Qualitative Taxa: 43		ICI: 44	
17200	Caenis sp	+	Number of Organisms: 1317		Qual EPT: 16	
22001	Coenagrionidae	+				
22300	Argia sp	+				
23804	Basiaeschna janata	+				
30000	Plecoptera	1				
48410	Corydalus cornutus	4 +				
50906	Psychomyia flavida	3 +				
52200	Cheumatopsyche sp	256 +				
52430	Ceratopsyche morosa group	200 +				
52530	Hydropsyche depravata group	+				
52540	Hydropsyche dicantha	165 +				
53800	Hydroptila sp	1 +				
57400	Neophylax sp	+				
58505	Helicopsyche borealis	+				
59580	Oecetis persimilis	1				
59970	Petrophila sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	4 +				
74100	Simulium sp	10 +				
77120	Ablabesmyia mallochi	3				
78655	Procladius (Holotanypus) sp	+				
78750	Rheopelopia paramaculipennis	3				
80310	Cardiocladius obscurus	19 +				
82070	Synorthocladius semivirens	+				
82101	Thienemanniella taurocapita	10 +				
82141	Thienemanniella xena	3				
82820	Cryptochironomus sp	+				
83040	Dicrotendipes neomodestus	+				
84300	Phaenopsectra obediens group	+				

## **Appendix C**

### **Little Miami River 2012 Habitat Data**

Appendix Table C-1. QHEI metric scores for stations sampled in the lower Little Miami (Cincinnati) study area during 2012.

River Mile	QHEI	QHEI Metrics:						Gradient & Score	Narrative
		Substrate	Cover	Channel	Riparian	Pool	Riffle		
<b>08-03 - (Turtle Creek)</b>									
(11021) - Turtle Creek 6.10	<b>69.00</b>	15.0	13.0	16.0	5.00	10.0	4.0	37.50 - ( 6)	Good
(11022) - Dry Run 1.80	<b>63.00</b>	14.0	14.0	15.0	5.00	7.0	4.0	75.90 - ( 4)	Good
<b>09-02 - (O'Bannon Creek)</b>									
(11010) - O'Bannon Creek 1.80	<b>71.25</b>	14.0	11.0	16.5	6.75	10.0	7.0	20.90 - ( 6)	Good
0.10	<b>71.00</b>	14.0	14.0	15.0	6.00	10.0	6.0	22.90 - ( 6)	Good
<b>12-08 - (Ninemile Creek-Ohio River)</b>									
(10001) - Five Mile Creek 2.40	<b>67.50</b>	16.0	15.0	15.0	5.50	7.0	5.0	70.60 - ( 4)	Good
0.10	<b>70.75</b>	16.5	14.0	14.0	6.25	11.0	5.0	73.40 - ( 4)	Good
(10002) - Eight Mile Creek 2.10	<b>71.00</b>	19.0	13.0	18.5	6.50	5.0	5.0	159.0 - ( 4)	Good
(10130) - Trib to Eight Mile Creek at RM 1.01 0.10	<b>71.50</b>	22.0	12.0	18.0	6.50	5.0	6.0	120.0 - ( 4)	Good
(10537) - Four Mile Creek 0.80	<b>66.00</b>	10.5	18.0	15.0	4.50	9.0	5.0	91.70 - ( 4)	Good
<b>13-05 - (East Fork Little Miami River)</b>									
(11100) - East Fork Little Miami River 19.50	<b>85.50</b>	19.0	13.0	18.0	9.50	10.0	6.0	6.10 - (10)	Excellent
15.00	<b>89.25</b>	19.0	19.0	18.0	7.25	10.0	6.0	6.27 - (10)	Excellent
13.70	<b>80.50</b>	16.5	15.0	15.0	5.00	12.0	7.0	6.61 - (10)	Excellent
13.20	<b>80.50</b>	16.0	14.0	16.0	5.50	12.0	7.0	6.92 - (10)	Excellent
11.00	<b>81.00</b>	16.0	15.0	16.0	5.00	12.0	7.0	6.79 - (10)	Excellent
9.10	<b>93.00</b>	21.0	19.0	18.0	6.00	12.0	8.0	6.77 - (10)	Excellent
5.60	<b>71.50</b>	14.0	15.0	14.0	4.50	10.0	4.0	7.04 - (10)	Good
4.30	<b>74.00</b>	14.0	16.0	13.0	7.00	9.0	5.0	6.93 - (10)	Good
2.00	<b>69.75</b>	14.0	14.0	13.0	5.75	9.0	4.0	7.06 - (10)	Good
1.00	<b>81.50</b>	15.0	17.0	16.0	4.50	12.0	7.0	6.99 - (10)	Excellent
0.70	<b>63.00</b>	14.0	15.0	11.0	6.00	7.0	0.0	6.95 - (10)	Good
<b>14-01 - (Sycamore Creek)</b>									
(11007) - Sycamore Creek 3.50	<b>60.75</b>	8.5	19.0	14.0	4.25	8.0	3.0	62.00 - ( 4)	Good
2.40	<b>73.00</b>	18.0	16.0	18.0	6.00	6.0	5.0	47.80 - ( 4)	Good
1.60	<b>72.50</b>	17.0	14.0	18.0	6.50	8.0	5.0	48.90 - ( 4)	Good

Appendix Table C-1. QHEI metric scores for stations sampled in the lower Little Miami (Cincinnati) study area during 2012.

River Mile	QHEI Metrics:								Narrative	
	QHEI	Substrate	Cover	Channel	Riparian	Pool	Riffle	Gradient & Score		
<b>14-01 - (Sycamore Creek)</b>										
(11007) - Sycamore Creek										
0.70	<b>65.25</b>	13.0	12.0	15.0	6.25	10.0	5.0	53.60 - ( 4)	<b>Good</b>	
0.50	<b>59.25</b>	12.5	12.0	9.5	4.25	9.0	6.0	38.10 - ( 6)	<b>Fair</b>	
0.20	<b>68.00</b>	14.5	12.0	12.0	6.00	11.0	6.5	38.40 - ( 6)	<b>Good</b>	
(11008) - North Branch Sycamore Creek										
5.00	<b>77.25</b>	17.0	17.0	18.0	4.75	8.0	4.5	34.70 - ( 8)	<b>Excellent</b>	
4.30	<b>83.00</b>	19.0	17.0	18.0	6.00	8.0	7.0	33.20 - ( 8)	<b>Excellent</b>	
2.10	<b>88.00</b>	19.0	18.0	18.0	7.00	12.0	6.0	39.80 - ( 8)	<b>Excellent</b>	
0.50	<b>72.75</b>	18.0	14.0	18.0	5.75	6.0	5.0	39.60 - ( 6)	<b>Good</b>	
0.10	<b>86.00</b>	20.0	20.0	18.0	6.00	10.0	6.0	39.60 - ( 6)	<b>Excellent</b>	
(11049) - Trib To Sycamore Cr. (RM 1.12)										
1.00	<b>73.50</b>	18.0	12.0	18.0	6.50	10.0	5.0	65.00 - ( 4)	<b>Good</b>	
0.30	<b>74.00</b>	17.0	13.0	18.0	7.00	10.0	5.0	66.30 - ( 4)	<b>Good</b>	
0.10	<b>66.00</b>	14.5	7.0	16.0	5.50	12.0	7.0	64.60 - ( 4)	<b>Good</b>	
(11073) - Unnamed Trib to N Branch Sycamore Creek at RM 5.4										
0.60	<b>71.00</b>	18.0	17.0	15.0	6.00	6.0	5.0	42.40 - ( 4)	<b>Good</b>	
(11074) - Unnamed Trib to N Br Sycamore Cr at RM 0.75										
1.40	<b>76.00</b>	19.0	18.0	18.0	7.00	5.0	5.0	75.00 - ( 4)	<b>Excellent</b>	
(11084) - Trib to North Branch Sycamore Creek ar RM 2.33										
1.80	<b>76.00</b>	17.0	18.0	19.0	7.00	6.0	5.0	60.10 - ( 4)	<b>Excellent</b>	
<b>14-02 - (Polk Run-Little Miami)</b>										
(11009) - Polk Run										
3.20	<b>82.00</b>	19.0	18.0	19.0	7.00	10.0	5.0	49.80 - ( 4)	<b>Excellent</b>	
3.00	<b>69.50</b>	15.0	15.0	16.0	6.50	10.0	3.0	50.50 - ( 4)	<b>Good</b>	
0.30	<b>68.00</b>	16.0	15.0	16.0	6.00	6.0	5.0	56.10 - ( 4)	<b>Good</b>	
(11069) - Unnamed Trib to Polk Run at RM 1.79										
2.50	<b>71.50</b>	18.0	13.0	19.0	6.50	5.0	6.0	56.40 - ( 4)	<b>Good</b>	
0.40	<b>78.00</b>	21.0	17.0	18.0	5.00	8.0	6.0	53.40 - ( 4)	<b>Excellent</b>	
(11070) - Unnamed Trib to Polk Run at RM 0.70										
2.00	<b>76.50</b>	18.0	18.0	19.0	6.50	6.0	5.0	142.0 - ( 4)	<b>Excellent</b>	
0.70	<b>75.00</b>	18.0	12.0	19.0	7.00	10.0	5.0	54.50 - ( 4)	<b>Excellent</b>	
(11071) - Unnamed Trib (RM 1.77) to Unnamed Trib to Polk Run										
0.20	<b>73.00</b>	18.0	16.0	19.0	6.00	5.0	5.0	43.70 - ( 4)	<b>Good</b>	
<b>14-04 - (Duck Creek)</b>										
(11004) - Duck Creek										
6.00	<b>20.00</b>	0.0	2.0	6.5	3.50	2.0	2.0	65.00 - ( 4)	<b>Very Poor</b>	
5.20	<b>18.50</b>	0.0	1.0	6.0	5.50	2.0	2.0	0.29 - ( 2)	<b>Very Poor</b>	

Appendix Table C-1. QHEI metric scores for stations sampled in the lower Little Miami (Cincinnati) study area during 2012.

River Mile	QHEI	QHEI Metrics:						Gradient & Score	Narrative
		Substrate	Cover	Channel	Riparian	Pool	Riffle		
<b>14-04 - (Duck Creek)</b>									
<b>(11004) - Duck Creek</b>									
4.60	<b>40.00</b>	13.0	7.0	7.0	4.50	4.0	0.5	46.60 - ( 4)	Poor
4.40	<b>18.50</b>	-1.0	1.0	7.0	3.50	2.0	2.0	44.60 - ( 4)	Very Poor
3.30	<b>22.50</b>	-1.0	1.0	7.0	5.50	2.0	2.0	35.70 - ( 6)	Very Poor
2.90	<b>33.50</b>	5.0	4.0	8.0	5.00	4.0	1.5	31.20 - ( 6)	Poor
1.80	<b>48.00</b>	13.5	8.0	8.5	4.50	4.0	1.5	29.80 - ( 8)	Fair
<b>(11051) - East Fork Duck Creek</b>									
1.90	<b>59.00</b>	13.5	13.0	14.0	4.50	7.0	3.0	133.0 - ( 4)	Fair
0.50	<b>39.00</b>	12.0	9.0	8.0	4.00	2.0	0.0	116.0 - ( 4)	Poor
0.15	<b>51.00</b>	11.0	13.0	13.0	4.00	5.0	1.0	106.0 - ( 4)	Fair
<b>(11075) - Unnamed Trib to Duck Creek at RM 4.8</b>									
0.20	<b>36.50</b>	13.0	5.0	8.5	3.00	2.0	1.0	114.0 - ( 4)	Poor
<b>(11076) - Little Duck Creek</b>									
2.70	<b>46.50</b>	12.5	9.0	10.0	5.00	4.0	2.0	388.0 - ( 4)	Fair
2.60	<b>48.75</b>	11.5	7.0	14.0	5.25	4.0	3.0	384.0 - ( 4)	Fair
2.40	<b>59.00</b>	15.5	12.0	14.5	6.50	4.0	2.5	339.0 - ( 4)	Fair
1.40	<b>37.00</b>	10.0	8.0	8.0	4.00	3.0	0.0	196.0 - ( 4)	Poor
<b>14-05 - (Dry Run-Little Miami)</b>									
<b>(11005) - Dry Run</b>									
5.60	<b>62.50</b>	16.0	11.0	14.0	6.50	7.0	4.0	64.60 - ( 4)	Good
4.10	<b>56.50</b>	16.0	8.0	11.0	6.50	7.0	4.0	97.30 - ( 4)	Fair
2.50	<b>76.50</b>	18.0	18.0	16.0	6.50	9.0	5.0	90.30 - ( 4)	Excellent
<b>14-06 - (Clough Creek-Little)</b>									
<b>(11002) - Clough Creek</b>									
4.60	<b>56.25</b>	14.0	11.0	15.0	6.25	3.0	3.0	61.80 - ( 4)	Fair
3.20	<b>56.50</b>	16.0	10.0	15.0	4.50	4.0	3.0	85.40 - ( 4)	Fair
3.00	<b>57.75</b>	16.0	10.0	14.0	4.75	5.0	4.0	87.10 - ( 4)	Fair
1.20	<b>65.00</b>	15.5	12.0	16.0	5.50	9.0	3.0	71.60 - ( 4)	Good
0.60	<b>57.50</b>	16.5	7.0	13.0	7.00	6.0	4.0	66.60 - ( 4)	Fair
<b>(11003) - McCullough Run</b>									
1.30	<b>37.00</b>	12.0	9.0	5.0	4.00	3.0	0.0	57.80 - ( 4)	Poor
<b>(11078) - Unnamed Trib to McCullough Run at RM 1.08</b>									
1.50	<b>56.75</b>	16.5	11.0	11.0	6.75	4.0	3.5	173.0 - ( 4)	Fair
<b>(11079) - Trib to Unnamed Trib to Clough Creek at RM3.06</b>									
1.05	<b>58.75</b>	16.0	10.0	13.0	4.75	7.0	4.0	89.30 - ( 4)	Fair



Appendix Table C-1. QHEI metric scores for stations sampled in the lower Little Miami (Cincinnati) study area during 2012.

River Mile	QHEI Metrics:								Narrative	
	QHEI	Substrate	Cover	Channel	Riparian	Pool	Riffle	Gradient & Score		
<b>(11081) - UT at RM 0.95 to UT to Clough Creek at RM 3.06</b>										
0.20	<b>60.75</b>	16.0	11.0	14.0	4.75	7.0	4.0	83.10 - ( 4)	<b>Good</b>	
<b>90-02 - (Little Miami River, O'Bannon Creek to Ohio</b>										
<b>(11001) - Little Miami River</b>										
27.80	<b>73.00</b>	20.0	9.0	15.0	7.00	6.0	6.0	6.60 - (10)	<b>Good</b>	
23.70	<b>76.50</b>	16.0	13.0	14.5	7.00	11.0	5.0	6.47 - (10)	<b>Excellent</b>	
22.10	<b>69.50</b>	14.0	11.0	14.0	7.00	9.0	4.5	6.44 - (10)	<b>Good</b>	
21.70	<b>75.00</b>	17.5	12.0	16.0	6.50	8.0	5.0	6.45 - (10)	<b>Excellent</b>	
21.25	<b>74.00</b>	19.5	11.0	14.0	7.00	9.0	3.5	6.43 - (10)	<b>Good</b>	
20.60	<b>82.00</b>	18.0	12.0	16.0	8.00	11.0	7.0	6.39 - (10)	<b>Excellent</b>	
18.40	<b>72.00</b>	14.0	9.0	15.0	7.00	10.0	7.0	6.36 - (10)	<b>Good</b>	
17.60	<b>84.00</b>	16.5	14.0	16.5	8.00	12.0	7.0	6.24 - (10)	<b>Excellent</b>	
12.90	<b>81.50</b>	17.5	13.0	16.5	6.50	12.0	6.0	6.19 - (10)	<b>Excellent</b>	
11.80	<b>75.50</b>	17.5	11.0	14.0	6.50	10.0	6.5	6.12 - (10)	<b>Excellent</b>	
11.20	<b>88.50</b>	18.0	14.0	19.0	8.00	12.0	7.5	6.17 - (10)	<b>Excellent</b>	
8.30	<b>73.50</b>	16.0	9.0	15.5	7.00	11.0	5.0	6.09 - (10)	<b>Good</b>	
7.10	<b>75.00</b>	16.0	17.0	13.0	6.50	9.0	3.5	6.08 - (10)	<b>Excellent</b>	
6.00	<b>54.50</b>	14.0	3.0	14.0	6.00	5.0	2.5	6.07 - (10)	<b>Fair</b>	
4.30	<b>59.50</b>	14.0	3.0	13.5	6.50	8.0	4.5	6.13 - (10)	<b>Fair</b>	
3.00	<b>72.25</b>	15.5	12.0	15.0	6.25	10.0	3.5	6.16 - (10)	<b>Good</b>	
1.40	<b>64.00</b>	12.0	16.0	12.0	6.00	8.0	0.0	6.18 - (10)	<b>Good</b>	
<b>(11047) - Unnamed Trib to Little Miami River at RM 0.83</b>										
0.20	<b>65.00</b>	14.0	15.0	16.0	7.00	6.0	3.0	141.0 - ( 4)	<b>Good</b>	
<b>(11066) - Unnamed Trib to Little Miami River at RM 13.1</b>										
1.50	<b>63.00</b>	18.0	11.0	14.0	8.00	5.0	3.0	121.0 - ( 4)	<b>Good</b>	
<b>(11067) - Unnamed Trib to Little Miami River at RM 7.75</b>										
1.20	<b>70.00</b>	17.0	15.0	15.5	8.50	5.0	5.0	226.0 - ( 4)	<b>Good</b>	
<b>(11068) - Unnamed Trib (RM 2.7) to Unnamed Trib to Little Mi</b>										
0.50	<b>70.00</b>	17.0	13.0	14.0	8.00	4.0	4.0	6.18 - (10)	<b>Good</b>	

## **Appendix D**

### **Little Miami River 2012 Primary Headwater Habitat Data**

Appendix Table D-1. Key biological and habitat variables used in the Little Miami River watershed study to distinguish PHW from larger stream aquatic life uses (e.g., WWH).

Site ID	River Mile	D.A. (sq mi)	HHEI		QHEI		Fish				Macros		Salamanders AdultLarvae	Aquatic Life Use.		
			HHEI	Pool Scr	Flow Scr	QHEI	Pool Scr	Total Sp.	Sens Sp.	HW Sp.	% Pio- near	Qual EPT.			CW Taxa	
<b>08-03 - (Turtle Creek)</b>																
<i>[11-022] - Dry Run</i>																
RF09	1.80	4.9				70-100 cm	11	1	2	26					WWH	
<b>12-08 - (Ninemile Creek-Ohio River)</b>																
<i>[10-001] - Five Mile Creek</i>																
LM107	2.40	2.6	67	20	4	67.5	20-40 cm	4	0	1	27	5	0		WWH	
LM108	0.10	4.8				70.7	> 100 cm	22	7	2	27	5	0		WWH	
<i>[10-002] - Eight Mile Creek</i>																
LM105	2.00	0.8	90	20	4	71.0	20-40 cm	1	0		100	2	0	4	PHW3A	
<i>[10-130] - Trib to Eight Mile Creek at RM 1.01</i>																
LM106	0.10	1.1	68	20	4	71.5	20-40 cm	3	0	1	78	4	0	7	PHW3A	
<i>[10-537] - Four Mile Creek</i>																
LM104	0.70	1.1	77	20	4	66.0	70-100 cm	2	0	1	82	4	0	3	WWH	
<b>14-01 - (Sycamore Creek)</b>																
<i>[11-007] - Sycamore Creek</i>																
LM47	3.50	3.5				60.7	70-100 cm	4	0	1	54	3	0		WWH	
LM48	2.40	4.8				73.0	40-70 cm	3	0	1	52	5	0		WWH	
<i>[11-008] - North Branch Sycamore Creek</i>																
LM57	5.00	2.9				77.2	40-70 cm	7	0	1	36	6	0		WWH	
LM58	3.70	4.4				83.0	40-70 cm	8	0	2	22	7	0		WWH	
<i>[11-072] - Unnamed Trib to N Branch Sycamore Creek at RM 5.3</i>																
LM65	0.75	0.3	44		1			1							PHW2	
<i>[11-073] - Unnamed Trib to N Branch Sycamore Creek at RM 5.4</i>																
LM63	0.60	1.1	74	20	4	71.0	40-70 cm	5	0	1	54	1	0		WWH	
<i>[11-074] - Unnamed Trib to N Br Sycamore Cr at RM 0.75</i>																
LM64	1.40	0.5	63	20	4	76.0	20-40 cm	1	0		100	0	0	1	3	PHW3A
<i>[11-084] - Trib to North Branch Sycamore Creek ar RM 2.33</i>																
LM62	1.65	0.6	67	20	4	76.0	40-70 cm	1	0		100	1	1	1	1	PHW3A
<i>[11-086] - Unnamed Trib (1.82) to Trib to Sycamore Creek (1.1</i>																
LM54	0.40	1.6	58		1			1							PHW2	
<b>14-02 - (Polk Run-Little Miami)</b>																
<i>[11-009] - Polk Run</i>																
LM39	2.90	2.7				69.5	> 100 cm	9	0	2	64	6	1		WWH	
<i>[11-048] - Polk Run</i>																
LM46	3.20	2.6	80	20	4	82.0	> 100 cm	8		1		5	0	2	WWH	
<i>[11-069] - Unnamed Trib to Polk Run at RM 1.79</i>																
LM41	2.50	1.3	86	20	4	71.5	20-40 cm	7	0	1	48	5	1	3	WWH	
LM44	0.40	2.4	86	20	4	78.0	70-100 cm	8	0	1	71	7	0	3	WWH	
<i>[11-070] - Unnamed Trib to Polk Run at RM 0.70</i>																
LM43	0.70	2.5	78	20	4	75.0	> 100 cm	5	0	1	53	5	0	1	WWH	
<i>[11-071] - Unnamed Trib (RM 1.77) to Unnamed Trib to Polk Run</i>																
LM45	0.20	1.1	86	20	4	73.0	20-40 cm	5	0	1	68	6	1	3	WWH	

Appendix Table D-1. Key biological and habitat variables used in the Little Miami River watershed study to distinguish PHW from larger stream aquatic life uses (e.g., WWH).

Site ID	River Mile	D.A. (sq mi)	HHEI		QHEI		Fish				Macros		Salamanders AdultLarvae	Aquatic Life Use.		
			HHEI	Pool Scr	Flow Scr	QHEI	Pool Scr	Total Sp.	Sens Sp.	HW % Sp.	Pio- near	Qual EPT.			CW Taxa	
<b>14-04 - (Duck Creek)</b>																
<i>[11-004] - Duck Creek</i>																
LM71	6.00	2.2	66	30	4	20.0	< 20 cm					0	0		LRW	
LM78	5.20	3.5	57	15	4	18.5	< 20 cm					1	0		LRW	
<i>[11-051] - East Fork Duck Creek</i>																
LM85	1.50	1.3	69	20	4	59.0	70-100 cm	3	0	1	71	0	0		WWH	
LM84	0.50	2.4	71	20	4	39.0	20-40 cm	4	0	1	67	1	0		MWH	
LM74	0.15	3.4	72	20	4	51.0	40-70 cm	8	0	1	58	3	1		WWH	
<i>[11-075] - Unnamed Trib to Duck Creek at RM 4.8</i>																
LM83	0.80	1.2	41		1			1							PHW2	
LM80	0.10	1.4	60	20	4	36.5	20-40 cm	1	0		100	0	0		LRW	
<i>[11-076] - Little Duck Creek</i>																
LM86	2.70	0.4	71	20	4	46.5	40-70 cm	4	0	1	39	7	0	5	WWH	
LM87	2.60	0.5	78	20	4	48.7	40-70 cm	4	0	1	40	6	1	3	WWH	
LM90	2.30	0.5	86	30	4	59.0	20-40 cm	4	0	1	47	5	1	3	WWH	
LM88	1.70	0.8	51		1			1							WWH	
LM89	1.30	1.1	66	20	4	37.0	40-70 cm	5	0	1	69	2	1	1	2	WWH
LM91	1.00	14.5						1							WWH	
LM92	0.20	1.7						1							WWH	
<i>[11-077] - Unnamed Trib to Little Duck Creek at RM 4.42</i>																
LM82	0.10	1.4	76	25	4	-99.0		1				0	0	4	WWH	
<b>14-05 - (Dry Run-Little Miami)</b>																
<i>[11-005] - Dry Run</i>																
LM70	5.50	0.8	62	20	4	62.5	70-100 cm	1	0		100	4	0	7	PHW3A	
LM66	4.10	3.2				56.5	70-100 cm	4	0	1	28	6	0		WWH	
LM67	2.50	4.7				76.5	70-100 cm	10	2	1	22	8	0		WWH	
<i>[11-064] - Trib to Dry Run (4.20)</i>																
LM69	0.10	0.9	70	20	4	-99.0		1				7	1	10	PHW3A	
<b>14-06 - (Clough Creek-Little)</b>																
<i>[11-002] - Clough Creek</i>																
LM99	4.60	0.9	71	20	4	56.2	20-40 cm	2	0	1	63	3	1	3	PHW3A	
LM95	3.20	2.0	72	20	4	56.5	20-40 cm	5	1	1	39	3	0	1	2	WWH
LM96	3.00	5.4	72	20	4	57.7	40-70 cm	9	1	1	47	6	0	3	WWH	
<i>[11-003] - McCullough Run</i>																
LM94	1.30	1.7	54	20	4	37.0	20-40 cm	12	1	1	78	0	0		WWH	
<i>[11-078] - Unnamed Trib to McCullough Run at RM 1.08</i>																
LM93	1.40	0.9	72	20	4	56.7	20-40 cm	7	1	2	40	5	0	7	WWH	
<i>[11-079] - Trib to Unnamed Trib to Clough Creek at RM3.06</i>																
LM101	1.00	0.7	72	20	4	58.7	70-100 cm	2	0	1	80	4	0	5	WWH	
<i>[11-080] - UT at RM 0.66 to UT to Clough Creek at RM 3.06</i>																
LM102	0.20	1.1	72	20	4	-99.0		1				2	2		PHW2	
<i>[11-081] - UT at RM 0.95 to UT to Clough Creek at RM 3.06</i>																
LM100	0.10	0.9	62	20	4	60.7	70-100 cm	5	0		93	2	0		WWH	

Appendix Table D-1. Key biological and habitat variables used in the Little Miami River watershed study to distinguish PHW from larger stream aquatic life uses (e.g., WWH).

Site ID	River Mile	D.A. (sq mi)	HHEI		QHEI		Fish			Macros		Salamanders AdultLarvae	Aquatic Life Use.		
			HHEI	Pool Flow Scr	QHEI	Pool Scr	Total Sp.	Sens Sp.	HW % Pio- near	Qual EPT.	CW Taxa				
<b>90-02 - (Little Miami River, O'Bannon Creek to Ohio)</b>															
<i>[11-047] - Unnamed Trib to Little Miami River at RM 0.83</i>															
LM103	0.10	1.7	65	20	4	65.0	20-40 cm	17	6	1	53	2	0	6	WWH
<i>[11-066] - Unnamed Trib to Little Miami River at RM 13.1</i>															
LM21	1.50	3.0				63.0	40-70 cm	6	1	2	15	7	1		WWH
<i>[11-067] - Unnamed Trib to Little Miami River at RM 7.75</i>															
LM20	1.20	0.5	72	20	4	70.0	40-70 cm	2	0	1	75	5	0	2	PHW3A
<i>[11-082] - Unnamed Trib to Little Miami River at 24.06</i>															
LM23	0.20	1.6	50		1			1							PHW2
<i>[11-083] - Unnamed Trib to Little Miami River at RM 21.82</i>															
LM24	0.10	0.8	50		1			1							PHW2
<i>[11-085] - Unnamed Trib to Little Miami River at 13.8</i>															
LM22	0.30	1.2	58		1			1							PHW2

Yoder, C.O. 1991. The integrated biosurvey as an approach for the evaluation of aquatic life use attainment and diagnosis of impairment for Ohio surface waters. Biocriteria Symposium on Research and Regulation, U.S. EPA, Offc. Water, Criteria and Stds. Div., Washington, D.C. EPA-440/5-91-005. pp. 110-122.

## **Appendix A**

### **Little Miami River 2011 Fish Assemblage Data**

Appendix Table 5!% Ohio Boatable IBI scores and metrics at boat sites in sampled in Little Miami during 2012.

Site ID	River Mile	Type	Date	Drainage area (sq mi)	Number of				Percent of Individuals						DELTA anomalies	Rel.No. minus tolerants /(1.0 km)	Modified IBI	lwb
					Total species	Sunfish species	Sucker species	Intolerant species	Rnd-bodied suckers	Simple Lithophils	Tolerant fishes	Omnivores	Top carnivores	Insectivores				
<b>90-02 - (Little Miami River, O'Bannon Creek to Ohio R.)</b>																		
Little Miami River - (11001)																		
Year: 2012																		
LM01	27.80	A	09/12/2012	1070	22(5)	1(1)	6(5)	1(1)	28(3)	29(3)	1(5)	22(3)	7(3)	55(5)	3.1(1)	840(5)	40	10.6
LM01	27.80	A	07/23/2012	1070	22(5)	3(3)	5(3)	1(1)	24(3)	25(3)	4(5)	17(3)	9(3)	69(5)	0.0(5)	713(5)	44	10.5
LM02	23.70	A	07/17/2012	1150	25(5)	3(3)	7(5)	2(3)	17(1)	22(3)	13(5)	26(3)	10(3)	58(5)	0.0(5)	294(3)	44	10.1
LM02	23.70	A	09/13/2012	1150	22(5)	4(5)	6(5)	2(3)	10(1)	11(1)	5(5)	30(1)	7(3)	62(5)	0.6(3)	934(5)	42	10.0
LM03	22.10	A	07/17/2012	1148	19(3)	2(3)	4(3)	2(3)	6(1)	7(1)	10(5)	34(1)	13(5)	52(3)	0.0(5)	348(3)	36	8.9
LM03	22.10	A	09/13/2012	1148	19(3)	3(3)	6(5)	1(1)	13(1)	13(1)	2(5)	21(3)	5(1)	74(5)	1.0(3)	822(5)	36	9.4
LM04	21.70	A	07/17/2012	1150	18(3)	3(3)	6(5)	1(1)	36(3)	38(3)	0(5)	18(3)	10(3)	68(5)	0.0(5)	386(3)	42	9.5
LM04	21.70	A	09/13/2012	1150	27(5)	3(3)	9(5)	5(5)	18(1)	19(1)	6(5)	42(1)	5(3)	48(3)	0.6(3)	582(5)	40	10.7
LM05	21.25	A	07/17/2012	1160	18(3)	1(1)	7(5)	1(1)	22(3)	22(3)	14(5)	18(3)	8(3)	56(5)	1.5(3)	224(3)	38	9.5
LM05	21.25	A	09/13/2012	1160	27(5)	3(3)	8(5)	3(3)	7(1)	7(1)	6(5)	12(5)	7(3)	79(5)	0.2(5)	1082(5)	46	9.9
LM06	20.60	A	07/24/2012	1161	24(5)	4(5)	5(3)	2(3)	12(1)	12(1)	21(3)	25(3)	7(3)	65(5)	0.3(5)	564(5)	42	9.8
LM06	20.60	A	09/19/2012	1161	27(5)	4(5)	6(5)	3(3)	4(1)	5(1)	7(5)	22(3)	8(3)	66(5)	0.3(5)	1180(5)	46	10.2
LM07	18.40	A	07/31/2012	1190	24(5)	4(5)	6(5)	1(1)	9(1)	9(1)	39(1)	40(1)	10(5)	44(3)	0.5(5)	512(5)	38	9.9
LM07	18.40	A	09/19/2012	1190	23(5)	4(5)	6(5)	3(3)	5(1)	6(1)	7(5)	34(1)	9(3)	53(3)	1.4(3)	906(5)	40	10.0
LM08	17.60	A	07/31/2012	1190	21(5)	3(3)	7(5)	1(1)	19(1)	20(1)	5(5)	8(5)	25(5)	50(3)	0.0(5)	302(3)	42	10.2
LM08	17.60	A	09/19/2012	1190	23(5)	3(3)	6(5)	3(3)	13(1)	14(1)	7(5)	29(1)	8(3)	61(5)	0.4(5)	1008(5)	42	10.2
LM09	12.90	A	08/01/2012	1200	21(5)	1(1)	8(5)	2(3)	18(1)	18(1)	1(5)	2(5)	9(3)	82(5)	0.4(5)	486(5)	44	9.4
LM09	12.90	A	09/20/2012	1200	23(5)	3(3)	6(5)	2(3)	9(1)	9(1)	1(5)	16(3)	8(3)	75(5)	0.3(5)	1380(5)	44	9.7
LM10	11.80	A	08/01/2012	1210	22(5)	3(3)	6(5)	1(1)	10(1)	10(1)	19(3)	21(3)	11(5)	64(5)	0.2(5)	770(5)	42	9.9
LM10	11.80	A	09/20/2012	1210	24(5)	3(3)	5(3)	4(5)	7(1)	8(1)	3(5)	31(1)	13(5)	54(3)	0.0(5)	1164(5)	42	9.9
LM11	11.20	A	08/01/2012	1710	21(5)	3(3)	6(5)	0(1)	8(1)	8(1)	2(5)	19(3)	14(5)	57(5)	0.0(5)	446(5)	44	9.8
LM11	11.20	A	09/20/2012	1710	24(5)	4(5)	7(5)	0(1)	10(1)	10(1)	4(5)	16(3)	13(5)	65(5)	0.8(3)	708(5)	44	10.0
LM12	8.30	A	07/11/2012	1713	23(5)	3(3)	4(3)	1(1)	10(1)	12(1)	13(5)	15(5)	11(5)	63(5)	1.1(3)	310(3)	40	9.6

♦ - IBI is low end adjusted.

\* - < 200 Total individuals in sample

\*\* - < 50 Total individuals in sample



Appendix Table 5!1. Ohio Boatable IBI scores and metrics at boat sites in sampled in Little Miami during 2012.

Site ID	River Mile	Type	Date	Drainage area (sq mi)	Number of				Percent of Individuals						DELTA anomalies	Rel.No. minus tolerants /(1.0 km)	Modified IBI	lwb
					Total species	Sunfish species	Sucker species	Intolerant species	Rnd-bodied suckers	Simple Lithophils	Tolerant fishes	Omnivores	Top carnivores	Insectivores				
LM12	8.30	A	09/26/2012	1713	22(5)	4(5)	5(3)	0(1)	5(1)	7(1)	4(5)	23(3)	22(5)	47(3)	0.0(5)	494(5)	42	9.7
LM13	7.10	A	07/11/2012	1720	21(5)	4(5)	5(3)	2(3)	5(1)	7(1)	15(5)	25(3)	15(5)	51(3)	0.6(3)	308(3)	40	9.8
LM13	7.10	A	09/27/2012	1720	22(5)	5(5)	4(3)	1(1)	3(1)	3(1)	4(5)	35(1)	15(5)	37(3)	0.2(5)	1150(5)	40	10.1
LM14	6.00	A	07/10/2012	1720	12(3)	0(1)	1(1)	2(3)	15(1)	16(1)	0(5)	5(5)	6(3)	87(5)	0.0(5)	248(3)	36	6.2
LM14	6.00	A	09/27/2012	1720	20(3)	3(3)	5(3)	0(1)	15(1)	16(1)	4(5)	51(1)	12(5)	28(3)	0.0(5)	690(5)	36	9.6
LM15	4.30	A	07/10/2012	1730	18(3)	3(3)	4(3)	2(3)	10(1)	11(1)	13(5)	24(3)	6(3)	60(5)	0.0(5)	198(1)	36	8.0
LM15	4.30	A	09/27/2012	1730	21(5)	3(3)	7(5)	1(1)	5(1)	5(1)	1(5)	79(1)	4(1)	14(1)	0.3(5)	1358(5)	34	9.0
LM16	3.00	A	07/10/2012	1752	21(5)	3(3)	4(3)	0(1)	9(1)	10(1)	4(5)	10(5)	16(5)	59(5)	0.0(5)	188(1) *	40	9.5
LM16	3.00	A	10/01/2012	1752	21(5)	5(5)	4(3)	0(1)	1(1)	1(1)	2(5)	60(1)	8(3)	27(3)	0.1(5)	1554(5)	38	9.8
LM17	1.40	A	07/11/2012	1760	15(3)	3(3)	3(3)	0(1)	3(1)	3(1)	6(5)	17(3)	24(5)	56(5)	0.0(5)	132(1) *	36	8.3
LM17	1.40	A	10/01/2012	1760	15(3)	2(3)	3(3)	2(3)	1(1)	1(1)	1(5)	69(1)	10(5)	21(1)	0.3(5)	698(5)	36	8.0

**13-05 - (East Fork Little Miami River)**

East Fork Little Miami River - (11100)

Year: 2012

LM34	2.00	A	08/15/2012	494	21(5)	5(5)	7(5)	1(1)	15(1)	15(1)	2(5)	37(1)	4(1)	53(3)	0.0(5)	616(5)	38	9.9
LM34	2.00	A	10/02/2012	494	18(3)	1(1)	7(5)	0(1)	11(1)	11(1)	2(5)	45(1)	5(1)	45(3)	0.4(5)	508(5)	32	9.1
LM35	1.00	A	08/15/2012	498	31(5)	4(5)	8(5)	3(3)	7(1)	12(1)	3(5)	37(1)	5(1)	53(3)	0.2(5)	862(5)	40	9.6
LM35	1.00	A	10/02/2012	498	23(5)	4(5)	7(5)	1(1)	3(1)	4(1)	3(5)	75(1)	4(1)	16(1)	0.3(5)	706(5)	36	9.2
LM36	0.70	A	08/15/2012	499	24(5)	5(5)	7(5)	0(1)	4(1)	5(1)	3(5)	58(1)	4(1)	35(3)	0.4(5)	484(5)	38	9.2
LM36	0.70	A	10/02/2012	499	15(3)	3(3)	4(3)	1(1)	2(1)	3(1)	12(5)	46(1)	7(3)	40(3)	0.4(5)	398(3)	32	9.0

♦ - IBI is low end adjusted.

\* - < 200 Total individuals in sample

\*\* - < 50 Total individuals in sample

**Appendix Table A-2. Wading IBI scores and metrics at wadeable sites sampled in the Little Miami study area during 2012.**

Site ID	River Mile	Type	Date	Drainage area (sq mi)	Number of					Percent of Individuals					Rel.No. minus tolerants /(0.3km)	Modified IBI	Iwb	
					Total species	Sunfish species	Sucker species	Intolerant species	Darter species	Simple Lithophils	Tolerant fishes	Omni-vores	Top carnivores	Insect-ivores				DELT anomalies
<b>14-01 - (Sycamore Creek)</b>																		
Sycamore Creek - (11007)																		
LM51	0.50	D	07/30/2012	24.0	18(5)	4(5)	1(1)	2(3)	3(3)	6(1)	44(3)	32(3)	2.5(3)	65(5)	0.5(5)	167(1)	38	6.9
LM51	0.50	D	09/25/2012	24.0	19(5)	4(5)	2(3)	2(3)	3(3)	5(1)	21(5)	6(5)	9.9(5)	82(5)	0.5(3)	263(3)	46	7.7
LM52	0.20	D	07/30/2012	24.0	19(5)	4(5)	3(5)	2(3)	3(3)	18(3)	5(5)	0(5)	6.7(5)	88(5)	0.0(5)	339(3)	52	8.2
LM52	0.20	D	09/25/2012	24.0	19(5)	4(5)	2(3)	2(3)	4(5)	16(1)	5(5)	0(5)	11.4(5)	80(5)	0.5(5)	314(3)	50	7.5
<b>09-02 - (O'Bannon Creek)</b>																		
O'Bannon Creek - (11010)																		
LM37	1.80	D	07/26/2012	54.3	23(5)	4(5)	3(3)	4(3)	4(3)	37(5)	22(5)	12(5)	9.1(5)	78(5)	0.0(5)	414(3)	52	9.1
LM37	1.80	D	10/03/2012	54.3	27(5)	4(5)	3(3)	3(3)	5(5)	28(3)	13(5)	11(5)	4.2(3)	76(5)	0.1(5)	899(5)	52	9.5
LM38	0.10	D	07/26/2012	59.0	18(3)	3(3)	1(1)	3(3)	3(3)	16(1)	31(3)	25(3)	5.5(5)	57(5)	0.0(5)	246(3)	38	7.1
LM38	0.10	D	10/02/2012	59.0	22(5)	3(3)	4(5)	3(3)	5(5)	28(3)	15(5)	13(5)	2.7(3)	66(5)	0.0(5)	422(3)	50	7.6
<b>13-05 - (East Fork Little Miami River)</b>																		
East Fork Little Miami River - (11100)																		
LM25	19.50	E	08/13/2012	344.0	25(5)	6(5)	3(3)	3(3)	5(3)	14(1)	9(5)	8(5)	10.2(5)	64(5)	0.4(3)	1032(5)	48	9.8
LM25	19.50	E	10/01/2012	344.0	18(3)	4(5)	3(3)	2(1)	3(1)	17(1)	22(3)	21(3)	10.9(5)	56(5)	1.0(3)	354(3)	36	8.4
LM26	15.00	D	08/13/2012	352.0	23(5)	5(5)	2(1)	3(3)	6(5)	18(1)	5(5)	4(5)	10.4(5)	78(5)	0.0(5)	780(5)	50	9.0
LM26	15.00	D	10/01/2012	352.0	22(3)	5(5)	3(3)	2(1)	5(3)	24(3)	15(5)	12(5)	10.1(5)	74(5)	0.5(3)	483(3)	44	8.7
LM27	13.70	D	08/14/2012	364.0	24(5)	5(5)	2(1)	4(3)	5(3)	10(1)	13(5)	13(5)	2.6(3)	80(5)	0.0(5)	753(5)	46	8.5
LM27	13.70	D	10/01/2012	364.0	24(5)	5(5)	4(3)	3(3)	5(3)	9(1)	29(3)	30(3)	4.8(3)	56(5)	0.6(3)	374(3)	40	8.8
LM28	13.20	D	08/14/2012	365.0	28(5)	6(5)	7(5)	2(1)	3(1)	23(3)	7(5)	10(5)	7.9(5)	72(5)	0.3(3)	497(3)	46	10.5
LM28	13.20	D	10/04/2012	365.0	26(5)	4(5)	8(5)	2(1)	4(3)	13(1)	16(5)	21(3)	6.1(5)	69(5)	0.5(3)	269(3)	44	9.1
LM29	11.00	D	08/14/2012	376.0	28(5)	5(5)	4(3)	3(3)	6(3)	6(1)	12(5)	20(3)	3.4(3)	75(5)	0.1(3)	908(5)	44	9.2
LM29	11.00	D	10/04/2012	376.0	21(3)	4(5)	4(3)	1(1)	3(1)	5(1)	13(5)	19(3)	5.5(5)	76(5)	0.2(3)	542(3)	38	8.0

na - Qualitative data, Modified Iwb not applicable.

◆ - IBI is low end adjusted.

\* - < 200 Total individuals in sample

\*\* - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

Appendix Table A-2. Wading IBI scores and metrics at wadeable sites sampled in the Little Miami study area during 2012.

Site ID	River Mile	Type	Date	Drainage area (sq mi)	Number of					Percent of Individuals					Rel.No. minus tolerants /(0.3km)	Modified IBI	lwb	
					Total species	Sunfish species	Sucker species	Intolerant species	Darter species	Simple Lithophils	Tolerant fishes	Omnivores	Top carnivores	Insectivores				DELT anomalies
<b>13-05 - (East Fork Little Miami River)</b>																		
LM30	9.10	D	08/16/2012	380.0	25(5)	3(3)	3(3)	2(1)	5(3)	23(3)	3(5)	7(5)	10.1(5)	67(5)	0.0(5)	791(5)	48	9.8
LM30	9.10	D	10/03/2012	380.0	22(3)	2(3)	5(3)	2(1)	3(1)	10(1)	8(5)	8(5)	8.5(5)	70(5)	0.3(3)	407(3)	38	8.5
LM31	5.60	D	08/16/2012	485.0	25(5)	5(5)	8(5)	2(1)	2(1)	17(1)	6(5)	24(3)	10.5(5)	61(5)	0.6(3)	230(3)	42	9.7
LM31	5.60	D	10/04/2012	485.0	17(3)	3(3)	3(3)	0(1)	1(1)	6(1)	15(5)	22(3)	9.5(5)	68(5)	0.8(3)	323(3)	36	7.8
LM32	4.30	D	08/16/2012	491.0	21(3)	4(5)	5(3)	1(1)	1(1)	14(1)	4(5)	12(5)	13.6(5)	70(5)	0.0(5)	371(3)	42	8.9
LM32	4.30	D	10/04/2012	491.0	20(3)	2(3)	5(3)	1(1)	1(1)	1(1)	12(5)	14(5)	3.7(3)	82(5)	0.0(5)	884(5)	40	8.3

na - Qualitative data, Modified lwb not applicable.

◆ - IBI is low end adjusted.

\* - < 200 Total individuals in sample

\*\* - < 50 Total individuals in sampl

● - One or more species excluded from IBI calculation.

**Appendix Table A-3. Headwater IBI scores and metrics for sites sampled in the Little Miami River watershed during 2012.**

Site ID	River Mile	Type	Date	Drainage area (sq mi)	Number of						Percent of Individuals					Rel.No. minus tolerants /(0.3km)	IBI
					Total species	Minnow species	Headwater species	Sensitive species	Darter & Sculpin species	Simple Lithophils	Tolerant fishes	Omni-vores	Pioneering fishes	Insect-ivores	DELT anomalies		
<b>90-02 - (Little Miami River, O'Bannon Creek to Ohio)</b>																	
<i>Unnamed Trib to Little Miami River at RM 0.83 - (11-047)</i>																	
Year: 2012																	
LM103	0.20	F	08/30/2012	1.7	16(5)	9(5)	1(1)	6(5)	2(5)	4(5)	55(3)	6(5)	54(3)	41(5)	0.3(5)	300(5)	52
<i>Unnamed Trib to Little Miami River at RM 13.1 - (11-066)</i>																	
Year: 2012																	
LM21	1.50	F	08/14/2012	3.0	6(3)	4(3)	2(3)	1(1)	1(1)	4(5)	62(1)	2(5)	15(5)	15(1)	0.0(5)	152(3)	36
<b>14-02 - (Polk Run-Little Miami)</b>																	
<i>Polk Run - (11-009)</i>																	
Year: 2012																	
LM46	3.20	F	08/21/2012	2.6	8(3)	4(3)	1(1)	0(1)	1(1)	2(3)	87(1)	2(5)	75(1)	19(3)	0.0(5)	64(1)	28
LM39	3.00	E	08/20/2012	2.7	9(3)	4(3)	2(3)	0(1)	2(3)	2(3)	81(1)	10(5)	65(1)	22(3)	0.7(3)	166(3)	32
LM40	0.30	E	08/20/2012	10.8	20(5)	9(5)	1(1)	8(5)	3(3)	4(3)	21(5)	15(5)	21(5)	59(5)	0.0(5)	2156(5)	52
<i>Unnamed Trib to Polk Run at RM 1.79 - (11-069)</i>																	
Year: 2012																	
LM41	2.50	F	08/22/2012	1.3	7(5)	4(5)	1(1)	0(1)	0(1)	2(3)	60(1)	4(5)	49(3)	1(1)	0.3(5)	316(5)	36
LM44	0.40	F	08/22/2012	2.4	8(3)	4(3)	1(1)	0(1)	1(1)	2(3)	88(1)	5(5)	72(1)	17(3)	0.0(5)	106(3)	30
<i>Unnamed Trib to Polk Run at RM 0.70 - (11-070)</i>																	
Year: 2012																	
LM42	2.00	F	08/21/2012	0.8	4(3)	2(3)	0(1)	0(1)	0(1)	0(1)	82(1)	0(5)	82(1)	34(5)	0.0(5)	98(3)	30
LM43	0.70	F	08/22/2012	2.5	5(3)	4(3)	1(1)	0(1)	0(1)	1(1)	70(1)	2(5)	53(3)	7(1)	0.4(5)	150(3)	28
<i>Unnamed Trib (RM 1.77) to Unnamed Trib to Polk Run - (11-071)</i>																	
Year: 2012																	
LM45	0.20	F	08/21/2012	1.1	5(3)	3(3)	1(1)	0(1)	0(1)	1(1)	71(1)	0(5)	68(1)	14(3)	0.0(5)	156(5)	30

◆ - IBI is low end adjusted.

\* - < 200 Total individuals in sample

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● - One or more species excluded from IBI calculation.

**Appendix Table A-3. Headwater IBI scores and metrics for sites sampled in the Little Miami River watershed during 2012.**

Site ID	River Mile	Type	Date	Drainage area (sq mi)	Number of					Percent of Individuals					Rel.No. minus tolerants /(0.3km)	IBI	
					Total species	Minnow species	Headwater species	Sensitive species	Darter & Sculpin species	Simple Lithophils	Tolerant fishes	Omni-vores	Pioneering fishes	Insect-ivores			DELT anomalies
<b>14-01 - (Sycamore Creek)</b>																	
<i>Sycamore Creek - (11-007)</i>																	
Year: 2012																	
LM47	3.50	F	08/21/2012	3.5	4(1)	3(3)	1(1)	0(1)	0(1)	2(1)	86(1)	0(5)	54(3)	0(1)	0.0(5)	262(3)	26
LM48	2.40	F	08/22/2012	4.8	3(1)	3(3)	1(1)	0(1)	0(1)	1(1)	77(1)	0(5)	53(3)	0(1)	0.0(5)	262(3)	26
LM49	1.60	F	08/22/2012	6.6	5(1)	4(3)	1(1)	0(1)	0(1)	2(1)	71(1)	5(5)	36(3)	0(1)	1.2(3)	198(3)	24
LM50	0.70	E	08/06/2012	15.1	11(3)	5(3)	2(3)	2(1)	1(1)	4(3)	60(1)	41(1)	50(3)	3(1)	0.0(5)	264(3)	28
<i>North Branch Sycamore Creek - (11-008)</i>																	
Year: 2012																	
LM57	5.00	F	08/23/2012	2.9	7(3)	4(3)	1(1)	0(1)	0(1)	2(3)	42(3)	2(5)	37(3)	1(1)	0.0(5)	758(5)	34
LM58	4.30	E	08/23/2012	4.4	8(3)	5(3)	2(3)	0(1)	1(1)	2(1)	34(5)	6(5)	22(5)	7(1)	1.1(3)	1906(5)	36
LM59	2.10	E	08/23/2012	7.3	11(3)	5(3)	2(3)	1(1)	2(3)	3(3)	37(3)	22(3)	36(3)	19(1)	0.1(5)	1316(5)	36
LM60	0.50	F	08/27/2012	9.8	11(3)	5(3)	2(3)	2(1)	3(3)	4(3)	52(3)	35(1)	41(3)	10(1)	0.0(5)	2530(5)	34
LM61	0.10	F	08/23/2012	10.0	24(5)	11(5)	2(3)	8(5)	3(3)	6(5)	34(5)	22(3)	30(5)	57(5)	0.0(5)	1198(5)	54
<i>Trib To Sycamore Cr. (RM 1.12) - (11-049)</i>																	
Year: 2012																	
LM55	1.00	F	08/25/2012	5.3	3(1)	3(3)	0(1)	0(1)	0(1)	0(1)	45(3)	1(5)	45(3)	0(1)	5.1(1)	408(3)	24
LM56	0.30	F	08/25/2012	5.6	6(1)	4(3)	2(3)	0(1)	1(1)	2(1)	53(3)	7(5)	48(3)	0(1)	0.0(5)	586(5)	32
LM53	0.10	E	09/25/2012	4.9	5(1)	4(3)	2(3)	0(1)	1(1)	1(1)	69(1)	24(3)	61(1)	1(1)	0.0(5)	432(3)	24
<i>Unnamed Trib to N Branch Sycamore Creek at RM 5.4 - (11-073)</i>																	
Year: 2012																	
LM63	0.60	F	08/28/2012	1.1	5(3)	3(3)	1(1)	0(1)	0(1)	2(3)	63(1)	1(5)	54(3)	6(1)	0.0(5)	128(5)	32

◆ - IBI is low end adjusted.

\* - < 200 Total individuals in sample

\*\* - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

**Appendix Table A-3. Headwater IBI scores and metrics for sites sampled in the Little Miami River watershed during 2012.**

Site ID	River Mile	Type	Date	Drainage area (sq mi)	Number of						Percent of Individuals					Rel.No. minustolerants/(0.3km)	IBI
					Total species	Minnow species	Headwater species	Sensitive species	Darter & Sculpin species	Simple Lithophils	Tolerant fishes	Omni-vores	Pioneering fishes	Insect-ivores	DELT anomalies		
<b>14-05 - (Dry Run-Little Miami)</b>																	
<i>Dry Run - (11-005)</i>																	
Year: 2012																	
LM66	4.10	F	08/29/2012	3.2	4(1)	3(3)	1(1)	0(1)	0(1)	1(1)	57(3)	0(5)	28(5)	0(1)	0.0(5)	126(3)	30
LM67	2.50	E	08/28/2012	4.7	10(3)	6(5)	1(1)	2(3)	2(3)	5(5)	46(3)	9(5)	23(5)	6(1)	0.0(5)	1396(5)	44
LM68	0.60	E	08/02/2012	5.4	1(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0.0(1)	0(1) * *	Dry ♦
<b>14-04 - (Duck Creek)</b>																	
<i>Duck Creek - (11-004)</i>																	
Year: 2012																	
LM71	6.00	F	08/30/2012	2.2	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0.0(1)	0(1) * *	12
LM78	5.20	E	08/15/2012	3.5	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0.0(1)	2(1) * *	12
LM72	4.60	E	08/07/2012	5.1	4(1)	3(3)	0(1)	0(1)	0(1)	0(1)	97(1)	1(5)	97(1)	95(5)	0.7(5)	8(1)	26
LM73	4.40	F	08/07/2012	5.8	1(1)	0(1)	0(1)	0(1)	0(1)	0(1)	100(1)	0(1)	100(1)	100(1)	0.0(1)	0(1) * *	12
LM75	3.30	F	08/07/2012	11.4	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0.0(1)	0(1) * *	12
LM76	2.90	F	08/15/2012	11.8	4(1)	3(1)	1(1)	0(1)	0(1)	1(1)	30(5)	2(5)	6(5)	74(5)	0.0(5)	180(1)	32
LM77	1.80	E	08/15/2012	14.3	9(3)	7(5)	1(1)	0(1)	0(1)	1(1)	56(1)	7(5)	38(3)	41(3)	0.0(5)	604(3)	32
LM79	0.90	E	08/15/2012	14.7	1(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0.0(1)	0(1) * *	Dry ♦
<i>East Fork Duck Creek - (11-051)</i>																	
Year: 2012																	
LM81	2.70	E	08/29/2012	11.8	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0.0(1)	0(1) * *	Dry ♦
LM85	1.90	E	08/16/2012	1.5	3(1)	3(3)	1(1)	0(1)	0(1)	1(1)	79(1)	0(3)	71(1)	0(1)	0.0(3)	6(1) * *	18 ♦
LM84	0.50	E	08/16/2012	2.2	4(1)	4(3)	1(1)	0(1)	0(1)	1(1)	73(1)	3(5)	68(1)	0(1)	0.9(5)	58(3)	24
LM74	0.15	E	08/07/2012	3.4	8(3)	6(5)	1(1)	0(1)	0(1)	2(1)	69(1)	14(3)	58(1)	18(3)	0.2(5)	306(3)	28
<i>Unnamed Trib to Duck Creek at RM 4.8 - (11-075)</i>																	

♦ - IBI is low end adjusted.

\* - < 200 Total individuals in sample

\*\* - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

**Appendix Table A-3. Headwater IBI scores and metrics for sites sampled in the Little Miami River watershed during 2012.**

Site ID	River Mile	Type	Date	Drainage area (sq mi)	Number of						Percent of Individuals					Rel.No. minustolerants/(0.3km)	IBI
					Total species	Minnow species	Headwater species	Sensitive species	Darter & Sculpin species	Simple Lithophils	Tolerant fishes	Omni-vores	Pioneering fishes	Insect-ivores	DELT anomalies		
Year: 2012																	
LM80	0.20	F	08/15/2012	1.4	1(1)	0(1)	0(1)	0(1)	0(1)	0(1)	100(1)	0(1)	100(1)	100(1)	0.0(1)	0(1) * * 12	
<i>Little Duck Creek - (11-076)</i>																	
Year: 2012																	
LM86	2.70	E	08/16/2012	0.4	4(3)	3(3)	1(1)	0(1)	0(1)	2(5)	82(1)	0(5)	39(3)	0(1)	0.1(5)	320(5)	34
LM87	2.60	E	08/09/2012	0.5	4(3)	3(3)	1(1)	0(1)	0(1)	2(5)	74(1)	2(5)	41(3)	0(1)	0.0(5)	246(5)	34
LM90	2.40	F	08/09/2012	0.5	4(3)	3(3)	1(1)	0(1)	0(1)	2(5)	73(1)	0(5)	47(3)	0(1)	0.0(5)	394(5)	34
LM88	1.80	F	08/09/2012	0.8	1(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0.0(1)	0(1) * * Dry ♦	
LM89	1.40	F	08/09/2012	1.1	5(3)	3(3)	1(1)	0(1)	0(1)	2(3)	73(1)	1(5)	69(1)	1(1)	0.0(5)	496(5)	30
LM91	1.00	F	08/02/2012	0.7	1(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0.0(1)	0(1) * * Dry ♦	
LM92	0.20	F	08/09/2012	1.7	1(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0.0(1)	0(1) * * Dry ♦	
<i>Unnamed Trib to Little Duck Creek at RM 4.42 - (11-077)</i>																	
Year: 2012																	
LM82	0.10	F	08/15/2012	1.4	1(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0.0(1)	0(1) * * Dry ♦	
<b>14-06 - (Clough Creek-Little)</b>																	
<i>Clough Creek - (11-002)</i>																	
Year: 2012																	
LM95	3.20	F	08/29/2012	2.1	5(3)	4(3)	1(1)	1(1)	1(1)	2(3)	79(1)	0(5)	40(3)	1(1)	0.0(5)	98(3)	30
LM96	3.00	F	08/29/2012	2.0	9(5)	6(5)	1(1)	1(1)	1(3)	3(3)	73(1)	11(3)	48(3)	12(1)	0.0(5)	404(5)	36
LM97	1.20	E	08/30/2012	7.5	10(3)	6(5)	1(1)	1(1)	1(1)	4(3)	74(1)	47(1)	65(1)	18(1)	0.0(5)	500(3)	26
LM98	0.60	F	08/30/2012	7.8	7(3)	5(3)	1(1)	1(1)	1(1)	2(1)	72(1)	20(3)	32(3)	16(1)	0.0(5)	212(3)	26
<i>McCullough Run - (11-003)</i>																	
Year: 2012																	
LM94	1.30	F	08/28/2012	1.7	12(5)	6(5)	1(1)	1(1)	1(3)	3(5)	83(1)	18(1)	79(1)	13(3)	0.0(5)	68(3)	34

♦ - IBI is low end adjusted.

\* - < 200 Total individuals in sample

\*\* - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

**Appendix Table A-3. Headwater IBI scores and metrics for sites sampled in the Little Miami River watershed during 2012.**

Site ID	River Mile	Type	Date	Drainage area (sq mi)	Number of						Percent of Individuals					Rel.No. minus tolerants /(0.3km)	IBI
					Total species	Minnow species	Headwater species	Sensitive species	Darter & Sculpin species	Simple Lithophils	Tolerant fishes	Omnivores	Pioneering fishes	Insectivores	DELT anomalies		
<i>Unnamed Trib to McCullough Run at RM 1.08 - (11-078)</i>																	
Year: 2012																	
LM93	1.50	F	08/16/2012	0.9	7(5)	4(5)	2(3)	1(3)	2(5)	2(5)	75(1)	0(5)	40(3)	10(1)	0.0(5)	138(5)	46
<i>Trib to Unnamed Trib to Clough Creek at RM3.06 - (11-079)</i>																	
Year: 2012																	
LM101	1.05	F	08/28/2012	0.7	2(1)	2(3)	1(1)	0(1)	0(1)	1(3)	100(1)	0(5)	81(1)	0(1)	0.0(5)	0(1)	24
<i>UT at RM 0.95 to UT to Clough Creek at RM 3.06 - (11-081)</i>																	
Year: 2012																	
LM100	0.20	F	08/28/2012	0.9	5(3)	4(5)	0(1)	0(1)	0(1)	0(1)	94(1)	9(3)	93(1)	23(5)	3.4(1)	22(1)	24
<b>12-08 - (Ninemile Creek-Ohio River)</b>																	
<i>Five Mile Creek - (10-001)</i>																	
Year: 2012																	
LM107	2.40	F	08/29/2012	2.6	4(1)	4(3)	1(1)	0(1)	0(1)	1(1)	72(1)	1(5)	28(5)	0(1)	0.0(5)	164(3)	28
LM108	0.10	E	08/29/2012	4.8	21(5)	9(5)	2(3)	7(5)	3(3)	6(5)	34(3)	18(3)	27(5)	53(5)	0.0(5)	832(5)	52
<i>Four Mile Creek - (10-537)</i>																	
Year: 2012																	
LM104	0.80	F	08/29/2012	1.1	2(1)	2(3)	1(1)	0(1)	0(1)	1(1)	100(1)	0(5)	82(1)	0(1)	23.5(1)	0(1) * *	18
<b>08-03 - (Turtle Creek)</b>																	
<i>Turtle Creek - (11-021)</i>																	
Year: 2012																	
RF08	6.10	E	08/08/2012	18.0	24(5)	10(5)	2(3)	9(5)	4(3)	10(5)	69(1)	64(1)	72(1)	20(1)	0.0(5)	2144(5)	40
<i>Dry Run - (11-022)</i>																	
Year: 2012																	
RF09	1.80	E	08/08/2012	5.0	11(3)	5(3)	2(3)	1(1)	2(3)	3(3)	63(1)	8(5)	26(5)	36(3)	0.0(5)	296(3)	38
<i>Newman Run - (11-030)</i>																	

◆ - IBI is low end adjusted.

\* - < 200 Total individuals in sample

\*\* - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.



**Appendix Table A-3. Headwater IBI scores and metrics for sites sampled in the Little Miami River watershed during 2012.**

Site ID	River Mile	Type	Date	Drainage area (sq mi)	Number of					Percent of Individuals					Rel.No. minus tolerants /(0.3km)	IBI	
					Total species	Minnow species	Headwater species	Sensitive species	Darter & Sculpin species	Simple Lithophils	Tolerant fishes	Omni-vores	Pioneering fishes	Insect-ivores			DELT anomalies
Year: 2012																	
RF10	0.30	E	08/30/2012	9.0	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0.0(1)	0(1) * * Dry ♦

♦ - IBI is low end adjusted.

\* - < 200 Total individuals in sample

\*\* - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

# Appendix A-4: Midwest Biodiversity Institute

## Fish Species List

Rivers: *Fivemile Creek; Eightmile Creek; Trib to Eight Mile Creek @ RM 1.01; Fourmile Creek (Ohio R.); Little Miami River; Clough Creek; McCullough Run; Duck Creek; Dry Run; Sycamore Creek; North Branch Sycamore Creek*

Years: 2012

Number of Samples: 142      Data Sources: 99      Data Types: A; D; E; F

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		59	1.7	0.11	374	1.46	226.6
18-002	MOONEYE	I	R	M		2	0.1	0.00	0	0.00	15.0
20-001	SKIPJACK HERRING	P		M		23	0.6	0.04	13	0.05	21.6
20-003	GIZZARD SHAD	O		M		3934	31.5	7.48	799	10.88	25.4
40-002	BIGMOUTH BUFFALO	I		M	C	1	0.0	0.00	19	0.08	700.0
40-003	BLACK BUFFALO	I		M	C	1	0.0	0.00	120	0.47	4300.0
40-004	SMALLMOUTH BUFFALO	I		M	C	379	10.6	0.72	2892	11.25	272.5
40-005	QUILLBACK CARPSUCKER	O		M	C	46	1.3	0.09	686	2.67	532.6
40-006	RIVER CARPSUCKER	O		M	C	150	4.2	0.29	1224	4.76	291.6
40-007	HIGHFIN CARPSUCKER	O		M	C	11	0.3	0.02	124	0.48	402.7
40-008	SILVER REDHORSE	I	M	S	R	69	0.6	0.13	385	5.25	698.5
40-009	BLACK REDHORSE	I	I	S	R	89	2.5	0.17	264	1.03	106.0
40-010	GOLDEN REDHORSE	I	M	S	R	807	22.6	1.54	2047	7.96	90.6
40-011	SHORTHEAD REDHORSE	I	M	S	R	16	0.5	0.03	122	0.48	273.7
40-013	RIVER REDHORSE	I	I	S	R	21	0.6	0.04	534	2.08	909.5
40-015	NORTHERN HOG SUCKER	I	M	S	R	420	11.8	0.80	834	3.25	70.9
40-016	WHITE SUCKER	O	T	S	W	256	2.1	0.49	42	0.57	20.5
40-018	SPOTTED SUCKER	I		S	R	1	0.0	0.00	0	0.00	10.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	377	10.6	0.72	1092	4.25	103.5
43-001	COMMON CARP	O	T	M	G	104	2.9	0.20	2715	10.56	932.4
43-002	GOLDFISH	O	T	M	G	1	0.0	0.00	0	0.00	40.0
43-003	GOLDEN SHINER	I	T	M	N	2	0.0	0.00	0	0.00	5.0
43-008	STREAMLINE CHUB	I	R	S	N	2	0.1	0.00	0	0.00	1.0
43-009	GRAVEL CHUB	I	M	S	N	7	0.2	0.01	1	0.01	6.8
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	4047	32.4	7.70	20	0.28	0.6
43-013	CREEK CHUB	G	T	N	N	8051	64.4	15.31	79	1.08	1.2
43-016	SOUTH. REDBELLY DACE	H		S	N	1	0.0	0.00	0	0.00	3.0
43-020	EMERALD SHINER	I		M	N	6416	51.3	12.20	24	0.33	0.4
43-021	SILVER SHINER	I	I	S	N	19	0.5	0.04	1	0.01	3.6
43-022	ROSYFACE SHINER	I	I	S	N	20	0.2	0.04	0	0.00	1.8
43-024	SCARLET SHINER	I	M	S	N	37	0.3	0.07	0	0.01	1.2
43-025	STRIPED SHINER	I		S	N	414	3.3	0.79	4	0.07	1.4
43-026	COMMON SHINER	I		S	N	17	0.1	0.03	1	0.02	12.0
43-031	STEELCOLOR SHINER	I	P	M	N	136	3.8	0.26	17	0.07	4.5
43-032	SPOTFIN SHINER	I		M	N	694	5.6	1.32	9	0.13	1.6
43-034	SAND SHINER	I	M	M	N	452	3.6	0.86	3	0.05	0.9
43-035	MIMIC SHINER	I	I	M	N	1012	8.1	1.93	3	0.05	0.4
43-039	SILVERJAW MINNOW	I		M	N	392	11.0	0.75	13	0.05	1.2
43-041	BULLHEAD MINNOW	O		C	N	1	0.0	0.00	0	0.00	3.0

# Appendix A-4: Midwest Biodiversity Institute

## Fish Species List

Rivers: *Fivemile Creek; Eightmile Creek; Trib to Eight Mile Creek @ RM 1.01; Fourmile Creek (Ohio R.); Little Miami River; Clough Creek; McCullough Run; Duck Creek; Dry Run; Sycamore Creek; North Branch Sycamore Creek*

Years: 2012

Number of Samples: 142      Data Sources: 99      Data Types: A; D; E; F

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-042	FATHEAD MINNOW	O	T	C	N	21	0.6	0.04	0	0.00	1.3
43-043	BLUNTNOSE MINNOW	O	T	C	N	6760	54.1	12.86	22	0.30	0.4
43-044	CENTRAL STONEROLLER	H		N	N	8028	64.2	15.27	63	0.87	1.0
43-047	GRASS CARP			M	E	1	0.0	0.00	207	0.81	7400.0
47-002	CHANNEL CATFISH			C	F	269	7.5	0.51	1840	7.16	244.3
47-004	YELLOW BULLHEAD	I	T	C		106	3.0	0.20	82	0.32	27.7
47-007	FLATHEAD CATFISH	P		C	F	53	0.4	0.10	272	3.71	642.5
47-008	STONECAT MADTOM	I	I	C		23	0.6	0.04	5	0.02	8.7
47-009	MOUNTAIN MADTOM	I	R	C		5	0.1	0.01	0	0.00	1.2
57-001	WESTERN MOSQUITOFISH	I		N	E	5	0.0	0.01	0	0.00	1.0
70-001	BROOK SILVERSIDE	I	M	M		24	0.7	0.05	1	0.01	2.1
74-001	WHITE BASS	P		M	F	71	2.0	0.14	157	0.61	79.3
74-002	STRIPED BASS	P		M	E	3	0.1	0.01	104	0.41	1240.0
74-005	STR. BASS X WH. BASS				E	5	0.1	0.01	127	0.50	910.0
74-007	MORONE SP.			M		2	0.1	0.00	0	0.00	1.0
77-001	WHITE CRAPPIE	I		C	S	16	0.5	0.03	33	0.13	74.1
77-002	BLACK CRAPPIE	I		C	S	33	0.9	0.06	36	0.14	39.8
77-003	ROCK BASS	C		C	S	122	3.4	0.23	107	0.42	31.5
77-004	SMALLMOUTH BASS	C	M	C	F	973	7.8	1.85	245	3.34	31.5
77-005	SPOTTED BASS	C		C	F	544	4.4	1.03	87	1.19	20.0
77-006	LARGEMOUTH BASS	C		C	F	56	1.6	0.11	78	0.30	49.8
77-008	GREEN SUNFISH	I	T	C	S	994	8.0	1.89	48	0.66	6.1
77-009	BLUEGILL SUNFISH	I	P	C	S	794	6.4	1.51	64	0.88	10.2
77-011	LONGEAR SUNFISH	I	M	C	S	2470	19.8	4.70	118	1.61	6.0
77-012	REDEAR SUNFISH	I		C	E	9	0.3	0.02	10	0.04	41.1
77-015	GREEN SF X BLUEGILL SF					3	0.0	0.01	0	0.01	24.0
77-017	LONGEAR SF X BLUEGILL SF					3	0.0	0.01	0	0.01	16.6
77-021	GREEN SF X LONGEAR SF					9	0.1	0.02	1	0.03	27.2
80-001	SAUGER	P		S	F	31	0.9	0.06	241	0.94	277.7
80-007	SLENDERHEAD DARTER	I	R	S	D	20	0.6	0.04	1	0.01	2.4
80-011	LOGPERCH	I	M	S	D	62	1.7	0.12	28	0.11	16.3
80-014	JOHNNY DARTER	I		C	D	120	1.0	0.23	1	0.02	1.1
80-015	GREENSIDE DARTER	I	M	S	D	272	7.6	0.52	34	0.14	4.5
80-016	BANDED DARTER	I	I	S	D	185	1.5	0.35	1	0.02	1.2
80-022	RAINBOW DARTER	I	M	S	D	854	6.8	1.62	8	0.11	1.2
80-024	FANTAIL DARTER	I		C	D	647	5.2	1.23	2	0.03	0.4
80-026	SAUGER X WALLEYE	P			E	7	0.2	0.01	38	0.15	194.2
85-001	FRESHWATER DRUM		P	M		483	13.5	0.92	1369	5.33	101.2
99-997						0	0.0	0.00	0	0.00	*****

# Appendix A-4: Midwest Biodiversity Institute

## Fish Species List

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Rivers: *Fivemile Creek; Eightmile Creek; Trib to Eight Mile Creek @ RM 1.01; Fourmile Creek (Ohio R.); Little Miami River; Clough Creek; McCullough Run; Duck Creek; Dry Run; Sycamore Creek; North Branch Sycamore Creek*

Years: 2012

Number of Samples: 142      Data Sources: 99      Data Types: A; D; E; F

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-999	NO FISH					1	0.0	0.00	0	0.00	1.0
<b>No Species: 79</b>		<b>Nat. Species: 68</b>		<b>Hybrids: 5</b>		<b>Total Counted: 52571</b>		<b>Total Rel. Wt. :</b>		<b>19924</b>	

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM108 River: 10-001 Fivemile Creek RM: 0.10 Date: 08/29/2012

Time Fished: 3013 Distance: 0.150 Drainge (sq mi): 4.8 Depth: 0

Location: Dst. SR 52 on Ramp Lat: 39.04629 Long: -84.38915

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		5	10.0	0.79	64	1.08	6.4
40-008	SILVER REDHORSE	I	M	S	R	1	2.0	0.16	3800	64.38	1900.0
40-016	WHITE SUCKER	O	T	S	W	2	4.0	0.31	140	2.37	35.0
43-002	GOLDFISH	O	T	M	G	1	2.0	0.16	80	1.36	40.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	44	88.0	6.93	84	1.42	0.9
43-013	CREEK CHUB	G	T	N	N	66	132.0	10.39	172	2.91	1.3
43-020	EMERALD SHINER	I		M	N	211	422.0	33.23	258	4.37	0.6
43-025	STRIPED SHINER	I		S	N	1	2.0	0.16	6	0.10	3.0
43-032	SPOTFIN SHINER	I		M	N	5	10.0	0.79	10	0.17	1.0
43-034	SAND SHINER	I	M	M	N	19	38.0	2.99	24	0.41	0.6
43-035	MIMIC SHINER	I	I	M	N	45	90.0	7.09	36	0.61	0.4
43-043	BLUNTNOSE MINNOW	O	T	C	N	104	208.0	16.38	208	3.52	1.0
43-044	CENTRAL STONEROLLER	H		N	N	58	116.0	9.13	308	5.22	2.6
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	0.16	20	0.34	10.0
77-004	SMALLMOUTH BASS	C	M	C	F	4	8.0	0.63	104	1.76	13.0
77-005	SPOTTED BASS	C		C	F	11	22.0	1.73	240	4.07	10.9
77-008	GREEN SUNFISH	I	T	C	S	2	4.0	0.31	64	1.08	16.0
77-009	BLUEGILL SUNFISH	I	P	C	S	14	28.0	2.20	120	2.03	4.2
77-011	LONGEAR SUNFISH	I	M	C	S	8	16.0	1.26	80	1.36	5.0
77-021	GREEN SF X LONGEAR SF					2	4.0	0.31	20	0.34	5.0
80-016	BANDED DARTER	I	I	S	D	11	22.0	1.73	22	0.37	1.0
80-022	RAINBOW DARTER	I	M	S	D	19	38.0	2.99	38	0.64	1.0
80-024	FANTAIL DARTER	I		C	D	1	2.0	0.16	4	0.07	2.0

**No Species:** 22    **Nat. Species:** 21    **Hybrids:** 1    **Total Counted:** 635    **Total Rel. Wt. :** 5902

**IBI:** 52.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM107 River: 10-001 Fivemile Creek RM: 2.40 Date: 08/29/2012  
 Time Fished: 2046 Distance: 0.150 Drainge (sq mi): 2.6 Depth: 0  
 Location: adj. 5 Mile Rd. Lat: 39.05531 Long: -84.36120

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	132	264.0	44.59	662	29.50	2.5
43-013	CREEK CHUB	G	T	N	N	79	158.0	26.69	862	38.41	5.4
43-043	BLUNTNOSE MINNOW	O	T	C	N	3	6.0	1.01	80	3.57	13.3
43-044	CENTRAL STONEROLLER	H		N	N	82	164.0	27.70	640	28.52	3.9

**No Species:** 4      **Nat. Species:** 4      **Hybrids:** 0      **Total Counted:** 296      **Total Rel. Wt. :** 2244  
**IBI:** 28.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM105 River: 10-002 Eightmile Creek RM: 2.10 Date: 08/30/2012  
 Time Fished: 1078 Distance: 0.150 Drainge (sq mi): 0.8 Depth: 0  
 Location: behind 8456 Greenleaf Dr. Lat: 39.05518 Long: -84.31911

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-013	CREEK CHUB	G	T	N	N	1	2.0	100.00	40	100.00	20.0

**No Species:** 1      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 1      **Total Rel. Wt. :** 40  
**IBI:** 12.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM106 River: 10-130 Trib to Eight Mile Creek @ RM 1.01 RM: 0.10 Date: 08/29/2012

Time Fished: 1565 Distance: 0.150 Drainge (sq mi): 1.1 Depth: 0

Location: Ust. 8 Mile Rd. Lat: 39.04577 Long: -84.33173

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	19	38.0	21.84	80	32.00	2.1
43-013	CREEK CHUB	G	T	N	N	68	136.0	78.16	170	68.00	1.2

**No Species:** 3      **Nat. Species:** 2      **Hybrids:** 0      **Total Counted:** 87      **Total Rel. Wt. :** 250

**IBI:** 18.0      **MIwb:** N/A



# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM104 River: 10-537 Fourmile Creek (Ohio R.) RM: 0.80 Date: 08/29/2012  
 Time Fished: 1630 Distance: 0.150 Drainge (sq mi): 1.1 Depth: 0  
 Location: Ust. 4 mile Rd. Lat: 39.05612 Long: -84.39961

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	3	6.0	17.65	20	22.22	3.3
43-013	CREEK CHUB	G	T	N	N	14	28.0	82.35	70	77.78	2.5

**No Species:** 2      **Nat. Species:** 2      **Hybrids:** 0      **Total Counted:** 17      **Total Rel. Wt. :** 90  
**IBI:** 18.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM17 River: 11-001 Little Miami River RM: 1.40 Date: 07/11/2012  
 Time Fished: 1348 Distance: 0.500 Drainge (sq mi): 1760.0 Depth: 0  
 Location: Start Ust. Kellogg Ave. Lat: 39.08508 Long: -84.42132

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		8	16.0	11.43	8600	21.52	537.5
20-001	SKIPJACK HERRING	P		M		2	4.0	2.86	60	0.15	15.0
20-003	GIZZARD SHAD	O		M		8	16.0	11.43	454	1.14	28.3
40-004	SMALLMOUTH BUFFALO	I		M	C	9	18.0	12.86	17200	43.05	955.5
40-006	RIVER CARPSUCKER	O		M	C	3	6.0	4.29	6500	16.27	1083.3
40-023	SMALLMOUTH REDHORSE	I	M	S	R	2	4.0	2.86	2500	6.26	625.0
43-020	EMERALD SHINER	I		M	N	13	26.0	18.57	20	0.05	0.7
43-042	FATHEAD MINNOW	O	T	C	N	1	2.0	1.43	4	0.01	2.0
74-001	WHITE BASS	P		M	F	3	6.0	4.29	2600	6.51	433.3
77-004	SMALLMOUTH BASS	C	M	C	F	1	2.0	1.43	10	0.03	5.0
77-005	SPOTTED BASS	C		C	F	3	6.0	4.29	480	1.20	80.0
77-008	GREEN SUNFISH	I	T	C	S	3	6.0	4.29	100	0.25	16.6
77-009	BLUEGILL SUNFISH	I	P	C	S	10	20.0	14.29	1140	2.85	57.0
77-011	LONGEAR SUNFISH	I	M	C	S	1	2.0	1.43	40	0.10	20.0
77-012	REDEAR SUNFISH	I		C	E	1	2.0	1.43	100	0.25	50.0
85-001	FRESHWATER DRUM		P	M		2	4.0	2.86	150	0.38	37.5

**No Species:** 16    **Nat. Species:** 15    **Hybrids:** 0    **Total Counted:** 70    **Total Rel. Wt. :** 39958  
**IBI:** 36.0    **MIwb:** 8.3

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM17 River: 11-001 Little Miami River RM: 1.40 Date: 10/01/2012  
 Time Fished: 1429 Distance: 0.500 Drainge (sq mi): 1760.0 Depth: 0  
 Location: Start Ust. Kellogg Ave. Lat: 39.08508 Long: -84.42132

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
18-002	MOONEYE	I	R	M		2	4.0	0.57	60	0.12	15.0
20-001	SKIPJACK HERRING	P		M		2	4.0	0.57	40	0.08	10.0
20-003	GIZZARD SHAD	O		M		237	474.0	67.33	12700	26.31	26.7
40-004	SMALLMOUTH BUFFALO	I		M	C	2	4.0	0.57	7000	14.50	1750.0
40-006	RIVER CARPSUCKER	O		M	C	2	4.0	0.57	4400	9.12	1100.0
40-010	GOLDEN REDHORSE	I	M	S	R	2	4.0	0.57	2600	5.39	650.0
43-020	EMERALD SHINER	I		M	N	60	120.0	17.05	300	0.62	2.5
43-021	SILVER SHINER	I	I	S	N	1	2.0	0.28	6	0.01	3.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	3	6.0	0.85	16	0.03	2.6
43-047	GRASS CARP			M	E	1	2.0	0.28	14800	30.66	7400.0
74-001	WHITE BASS	P		M	F	4	8.0	1.14	4300	8.91	537.5
77-004	SMALLMOUTH BASS	C	M	C	F	1	2.0	0.28	40	0.08	20.0
77-005	SPOTTED BASS	C		C	F	28	56.0	7.95	1440	2.98	25.7
77-009	BLUEGILL SUNFISH	I	P	C	S	1	2.0	0.28	200	0.41	100.0
77-011	LONGEAR SUNFISH	I	M	C	S	4	8.0	1.14	90	0.19	11.2
77-012	REDEAR SUNFISH	I		C	E	1	2.0	0.28	60	0.12	30.0
80-001	SAUGER	P		S	F	1	2.0	0.28	220	0.46	110.0

**No Species:** 17      **Nat. Species:** 15      **Hybrids:** 0      **Total Counted:** 352      **Total Rel. Wt. :** 48272  
**IBI:** 36.0      **MIwb:** 8.0

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM16 River: 11-001 Little Miami River RM: 3.00 Date: 07/10/2012

Time Fished: 1798 Distance: 0.500 Drainge (sq mi): 1752.0 Depth: 0

Location: Lat: 39.10470 Long: -84.40890

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	2.0	1.02	1200	1.63	600.0
20-003	GIZZARD SHAD	O		M		4	8.0	4.08	840	1.14	105.0
40-004	SMALLMOUTH BUFFALO	I		M	C	13	26.0	13.27	34300	46.70	1319.2
40-006	RIVER CARPSUCKER	O		M	C	3	6.0	3.06	5100	6.94	850.0
40-010	GOLDEN REDHORSE	I	M	S	R	3	6.0	3.06	3720	5.06	620.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	6	12.0	6.12	6200	8.44	516.6
43-001	COMMON CARP	O	T	M	G	1	2.0	1.02	1000	1.36	500.0
43-020	EMERALD SHINER	I		M	N	8	16.0	8.16	10	0.01	0.6
43-032	SPOTFIN SHINER	I		M	N	2	4.0	2.04	10	0.01	2.5
43-034	SAND SHINER	I	M	M	N	7	14.0	7.14	6	0.01	0.4
43-043	BLUNTNOSE MINNOW	O	T	C	N	2	4.0	2.04	2	0.00	0.5
47-002	CHANNEL CATFISH			C	F	6	12.0	6.12	4820	6.56	401.6
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	1.02	5200	7.08	2600.0
74-002	STRIPED BASS	P		M	E	1	2.0	1.02	6000	8.17	3000.0
74-007	MORONE SP.			M		2	4.0	2.04	4	0.01	1.0
77-004	SMALLMOUTH BASS	C	M	C	F	9	18.0	9.18	1040	1.42	57.7
77-005	SPOTTED BASS	C		C	F	1	2.0	1.02	100	0.14	50.0
77-006	LARGEMOUTH BASS	C		C	F	2	4.0	2.04	1554	2.12	388.5
77-008	GREEN SUNFISH	I	T	C	S	1	2.0	1.02	80	0.11	40.0
77-009	BLUEGILL SUNFISH	I	P	C	S	8	16.0	8.16	300	0.41	18.7
77-011	LONGEAR SUNFISH	I	M	C	S	10	20.0	10.20	560	0.76	28.0
80-001	SAUGER	P		S	F	1	2.0	1.02	1200	1.63	600.0
85-001	FRESHWATER DRUM		P	M		6	12.0	6.12	202	0.28	16.8

**No Species:** 23    **Nat. Species:** 21    **Hybrids:** 0    **Total Counted:** 98    **Total Rel. Wt. :** 73448

**IBI:** 40.0    **MIwb:** 9.5

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM16 River: 11-001 Little Miami River RM: 3.00 Date: 10/01/2012

Time Fished: 2238 Distance: 0.500 Drainge (sq mi): 1752.0 Depth: 0

Location: Lat: 39.10470 Long: -84.40890

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-001	SKIPJACK HERRING	P		M		5	10.0	0.63	82	0.05	8.2
20-003	GIZZARD SHAD	O		M		458	916.0	58.05	21660	12.51	23.6
40-004	SMALLMOUTH BUFFALO	I		M	C	9	18.0	1.14	21600	12.48	1200.0
40-006	RIVER CARPSUCKER	O		M	C	11	22.0	1.39	25600	14.79	1163.6
40-010	GOLDEN REDHORSE	I	M	S	R	6	12.0	0.76	8120	4.69	676.6
40-023	SMALLMOUTH REDHORSE	I	M	S	R	2	4.0	0.25	2500	1.44	625.0
43-001	COMMON CARP	O	T	M	G	7	14.0	0.89	33000	19.06	2357.1
43-020	EMERALD SHINER	I		M	N	147	294.0	18.63	848	0.49	2.8
43-031	STEELCOLOR SHINER	I	P	M	N	1	2.0	0.13	8	0.00	4.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	1	2.0	0.13	4	0.00	2.0
47-002	CHANNEL CATFISH			C	F	15	30.0	1.90	39580	22.87	1319.3
47-007	FLATHEAD CATFISH	P		C	F	4	8.0	0.51	3860	2.23	482.5
74-001	WHITE BASS	P		M	F	3	6.0	0.38	120	0.07	20.0
77-001	WHITE CRAPPIE	I		C	S	5	10.0	0.63	2400	1.39	240.0
77-002	BLACK CRAPPIE	I		C	S	3	6.0	0.38	980	0.57	163.3
77-004	SMALLMOUTH BASS	C	M	C	F	2	4.0	0.25	260	0.15	65.0
77-005	SPOTTED BASS	C		C	F	49	98.0	6.21	5480	3.17	55.9
77-008	GREEN SUNFISH	I	T	C	S	4	8.0	0.51	80	0.05	10.0
77-009	BLUEGILL SUNFISH	I	P	C	S	8	16.0	1.01	460	0.27	28.7
77-011	LONGEAR SUNFISH	I	M	C	S	27	54.0	3.42	580	0.34	10.7
77-012	REDEAR SUNFISH	I		C	E	1	2.0	0.13	80	0.05	40.0
77-021	GREEN SF X LONGEAR SF					1	2.0	0.13	80	0.05	40.0
80-001	SAUGER	P		S	F	1	2.0	0.13	1400	0.81	700.0
85-001	FRESHWATER DRUM		P	M		19	38.0	2.41	4320	2.50	113.6

**No Species:** 23    **Nat. Species:** 21    **Hybrids:** 1    **Total Counted:** 789    **Total Rel. Wt. :** 173102

**IBI:** 38.0    **MIwb:** 9.8

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM15 River: 11-001 Little Miami River RM: 4.30 Date: 07/10/2012  
 Time Fished: 1071 Distance: 0.500 Drainge (sq mi): 1730.0 Depth: 0  
 Location: At. Otto Armlender Park Canoe Lauch Lat: 39.12145 Long: -84.39675

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		13	26.0	11.40	2060	5.18	79.2
40-004	SMALLMOUTH BUFFALO	I		M	C	9	18.0	7.89	28500	71.64	1583.3
40-010	GOLDEN REDHORSE	I	M	S	R	3	6.0	2.63	2720	6.84	453.3
40-015	NORTHERN HOG SUCKER	I	M	S	R	2	4.0	1.75	466	1.17	116.5
40-023	SMALLMOUTH REDHORSE	I	M	S	R	6	12.0	5.26	4780	12.01	398.3
43-020	EMERALD SHINER	I		M	N	29	58.0	25.44	52	0.13	0.9
43-031	STEELCOLOR SHINER	I	P	M	N	6	12.0	5.26	54	0.14	4.5
43-032	SPOTFIN SHINER	I		M	N	5	10.0	4.39	36	0.09	3.6
43-035	MIMIC SHINER	I	I	M	N	2	4.0	1.75	2	0.01	0.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	14	28.0	12.28	24	0.06	0.8
43-044	CENTRAL STONEROLLER	H		N	N	3	6.0	2.63	12	0.03	2.0
47-002	CHANNEL CATFISH			C	F	1	2.0	0.88	40	0.10	20.0
77-004	SMALLMOUTH BASS	C	M	C	F	7	14.0	6.14	110	0.28	7.8
77-008	GREEN SUNFISH	I	T	C	S	1	2.0	0.88	20	0.05	10.0
77-009	BLUEGILL SUNFISH	I	P	C	S	1	2.0	0.88	10	0.03	5.0
77-011	LONGEAR SUNFISH	I	M	C	S	3	6.0	2.63	120	0.30	20.0
80-016	BANDED DARTER	I	I	S	D	1	2.0	0.88	2	0.01	1.0
85-001	FRESHWATER DRUM		P	M		8	16.0	7.02	776	1.95	48.5

**No Species:** 18    **Nat. Species:** 18    **Hybrids:** 0    **Total Counted:** 114    **Total Rel. Wt. :** 39784

**IBI:** 36.0    **MIwb:** 8.0

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM15 River: 11-001 Little Miami River RM: 4.30 Date: 09/27/2012

Time Fished: 1104 Distance: 0.500 Drainge (sq mi): 1730.0 Depth: 0

Location: At. Otto Armlender Park Canoe Lauch Lat: 39.12145 Long: -84.39675

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-001	SKIPJACK HERRING	P		M		1	2.0	0.15	20	0.01	10.0
20-003	GIZZARD SHAD	O		M		533	1066.0	78.04	42180	31.23	39.5
40-004	SMALLMOUTH BUFFALO	I		M	C	9	18.0	1.32	37120	27.48	2062.2
40-005	QUILLBACK CARPSUCKER	O		M	C	1	2.0	0.15	700	0.52	350.0
40-006	RIVER CARPSUCKER	O		M	C	2	4.0	0.29	5000	3.70	1250.0
40-010	GOLDEN REDHORSE	I	M	S	R	3	6.0	0.44	2300	1.70	383.3
40-015	NORTHERN HOG SUCKER	I	M	S	R	7	14.0	1.02	3690	2.73	263.5
40-018	SPOTTED SUCKER	I		S	R	1	2.0	0.15	20	0.01	10.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	23	46.0	3.37	25800	19.10	560.8
43-001	COMMON CARP	O	T	M	G	2	4.0	0.29	2860	2.12	715.0
43-020	EMERALD SHINER	I		M	N	31	62.0	4.54	174	0.13	2.8
43-032	SPOTFIN SHINER	I		M	N	5	10.0	0.73	24	0.02	2.4
43-035	MIMIC SHINER	I	I	M	N	2	4.0	0.29	4	0.00	1.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	1	2.0	0.15	8	0.01	4.0
47-002	CHANNEL CATFISH			C	F	10	20.0	1.46	8240	6.10	412.0
74-001	WHITE BASS	P		M	F	11	22.0	1.61	2700	2.00	122.7
77-004	SMALLMOUTH BASS	C	M	C	F	12	24.0	1.76	3070	2.27	127.9
77-005	SPOTTED BASS	C		C	F	6	12.0	0.88	220	0.16	18.3
77-008	GREEN SUNFISH	I	T	C	S	1	2.0	0.15	60	0.04	30.0
77-009	BLUEGILL SUNFISH	I	P	C	S	2	4.0	0.29	180	0.13	45.0
77-011	LONGEAR SUNFISH	I	M	C	S	11	22.0	1.61	156	0.12	7.0
85-001	FRESHWATER DRUM		P	M		9	18.0	1.32	540	0.40	30.0

**No Species:** 22    **Nat. Species:** 21    **Hybrids:** 0    **Total Counted:** 683    **Total Rel. Wt. :** 135066

**IBI:** 34.0    **MIwb:** 9.0

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM14 River: 11-001 Little Miami River RM: 6.00 Date: 07/10/2012  
 Time Fished: 1082 Distance: 0.500 Drainge (sq mi): 1720.0 Depth: 0  
 Location: Ust. Duck Cr./ Adj. Mariemont Gardens Park Lat: 39.13388 Long: -84.38654

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		2	4.0	1.61	2060	24.10	515.0
20-003	GIZZARD SHAD	O		M		6	12.0	4.84	680	7.96	56.6
40-015	NORTHERN HOG SUCKER	I	M	S	R	18	36.0	14.52	5460	63.87	151.6
43-008	STREAMLINE CHUB	I	R	S	N	2	4.0	1.61	8	0.09	2.0
43-020	EMERALD SHINER	I		M	N	81	162.0	65.32	60	0.70	0.3
43-032	SPOTFIN SHINER	I		M	N	3	6.0	2.42	8	0.09	1.3
43-034	SAND SHINER	I	M	M	N	3	6.0	2.42	2	0.02	0.3
47-009	MOUNTAIN MADTOM	I	R	C		1	2.0	0.81	2	0.02	1.0
74-001	WHITE BASS	P		M	F	1	2.0	0.81	2	0.02	1.0
77-004	SMALLMOUTH BASS	C	M	C	F	3	6.0	2.42	110	1.29	18.3
77-005	SPOTTED BASS	C		C	F	1	2.0	0.81	10	0.12	5.0
85-001	FRESHWATER DRUM		P	M		3	6.0	2.42	146	1.71	24.3

**No Species:** 12    **Nat. Species:** 12    **Hybrids:** 0    **Total Counted:** 124    **Total Rel. Wt. :** 8548  
**IBI:** 36.0    **MIwb:** 6.2



# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM14 River: 11-001 Little Miami River RM: 6.00 Date: 09/27/2012

Time Fished: 1809 Distance: 0.500 Drainge (sq mi): 1720.0 Depth: 0

Location: Ust. Duck Cr./ Adj. Mariemont Gardens Park Lat: 39.13388 Long: -84.38654

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		174	348.0	48.47	4170	3.40	11.9
40-004	SMALLMOUTH BUFFALO	I		M	C	9	18.0	2.51	47200	38.50	2622.2
40-006	RIVER CARPSUCKER	O		M	C	1	2.0	0.28	2300	1.88	1150.0
40-010	GOLDEN REDHORSE	I	M	S	R	7	14.0	1.95	2230	1.82	159.2
40-015	NORTHERN HOG SUCKER	I	M	S	R	34	68.0	9.47	23740	19.36	349.1
40-023	SMALLMOUTH REDHORSE	I	M	S	R	12	24.0	3.34	11210	9.14	467.0
43-001	COMMON CARP	O	T	M	G	1	2.0	0.28	4200	3.43	2100.0
43-009	GRAVEL CHUB	I	M	S	N	5	10.0	1.39	78	0.06	7.8
43-020	EMERALD SHINER	I		M	N	4	8.0	1.11	10	0.01	1.2
43-031	STEELCOLOR SHINER	I	P	M	N	4	8.0	1.11	62	0.05	7.7
43-032	SPOTFIN SHINER	I		M	N	1	2.0	0.28	8	0.01	4.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	8	16.0	2.23	46	0.04	2.8
47-002	CHANNEL CATFISH			C	F	27	54.0	7.52	13320	10.87	246.6
74-001	WHITE BASS	P		M	F	3	6.0	0.84	700	0.57	116.6
77-003	ROCK BASS	C		C	S	2	4.0	0.56	240	0.20	60.0
77-004	SMALLMOUTH BASS	C	M	C	F	25	50.0	6.96	8810	7.19	176.2
77-005	SPOTTED BASS	C		C	F	14	28.0	3.90	400	0.33	14.2
77-008	GREEN SUNFISH	I	T	C	S	5	10.0	1.39	80	0.07	8.0
77-011	LONGEAR SUNFISH	I	M	C	S	18	36.0	5.01	120	0.10	3.3
80-011	LOGPERCH	I	M	S	D	1	2.0	0.28	10	0.01	5.0
85-001	FRESHWATER DRUM		P	M		4	8.0	1.11	3660	2.99	457.5

**No Species:** 21      **Nat. Species:** 20      **Hybrids:** 0      **Total Counted:** 359      **Total Rel. Wt. :** 122594

**IBI:** 36.0      **MIwb:** 9.6

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM13 River: 11-001 Little Miami River RM: 7.10 Date: 07/11/2012

Time Fished: 1812 Distance: 0.500 Drainge (sq mi): 1720.0 Depth: 0

Location: Ust. Train Tracks below boulder field Lat: 39.14097 Long: -84.36674

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		4	8.0	2.21	506	0.42	63.2
20-003	GIZZARD SHAD	O		M		15	30.0	8.29	2900	2.43	96.6
40-004	SMALLMOUTH BUFFALO	I		M	C	8	16.0	4.42	15200	12.73	950.0
40-006	RIVER CARPSUCKER	O		M	C	10	20.0	5.52	18800	15.74	940.0
40-008	SILVER REDHORSE	I	M	S	R	3	6.0	1.66	3000	2.51	500.0
40-010	GOLDEN REDHORSE	I	M	S	R	5	10.0	2.76	3402	2.85	340.2
40-015	NORTHERN HOG SUCKER	I	M	S	R	1	2.0	0.55	400	0.33	200.0
43-001	COMMON CARP	O	T	M	G	6	12.0	3.31	31000	25.95	2583.3
43-020	EMERALD SHINER	I		M	N	8	16.0	4.42	20	0.02	1.2
43-032	SPOTFIN SHINER	I		M	N	2	4.0	1.10	6	0.01	1.5
43-042	FATHEAD MINNOW	O	T	C	N	1	2.0	0.55	2	0.00	1.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	13	26.0	7.18	10	0.01	0.3
47-002	CHANNEL CATFISH			C	F	11	22.0	6.08	22502	18.84	1022.8
47-007	FLATHEAD CATFISH	P		C	F	7	14.0	3.87	10200	8.54	728.5
77-001	WHITE CRAPPIE	I		C	S	1	2.0	0.55	80	0.07	40.0
77-005	SPOTTED BASS	C		C	F	16	32.0	8.84	2180	1.83	68.1
77-008	GREEN SUNFISH	I	T	C	S	7	14.0	3.87	140	0.12	10.0
77-009	BLUEGILL SUNFISH	I	P	C	S	12	24.0	6.63	520	0.44	21.6
77-011	LONGEAR SUNFISH	I	M	C	S	42	84.0	23.20	1460	1.22	17.3
80-007	SLENDERHEAD DARTER	I	R	S	D	2	4.0	1.10	10	0.01	2.5
80-016	BANDED DARTER	I	I	S	D	1	2.0	0.55	2	0.00	1.0
85-001	FRESHWATER DRUM		P	M		6	12.0	3.31	7100	5.94	591.6

**No Species:** 22    **Nat. Species:** 21    **Hybrids:** 0    **Total Counted:** 181    **Total Rel. Wt. :** 119440

**IBI:** 40.0    **MIwb:** 9.8

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM13 River: 11-001 Little Miami River RM: 7.10 Date: 09/27/2012

Time Fished: 1791 Distance: 0.500 Drainge (sq mi): 1720.0 Depth: 0

Location: Ust. Train Tracks below boulder field Lat: 39.14097 Long: -84.36674

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		182	364.0	30.23	16300	19.76	44.7
40-004	SMALLMOUTH BUFFALO	I		M	C	5	10.0	0.83	10700	12.97	1070.0
40-006	RIVER CARPSUCKER	O		M	C	6	12.0	1.00	5690	6.90	474.1
40-010	GOLDEN REDHORSE	I	M	S	R	12	24.0	1.99	3920	4.75	163.3
40-023	SMALLMOUTH REDHORSE	I	M	S	R	5	10.0	0.83	3100	3.76	310.0
43-001	COMMON CARP	O	T	M	G	5	10.0	0.83	13900	16.85	1390.0
43-020	EMERALD SHINER	I		M	N	75	150.0	12.46	288	0.35	1.9
43-031	STEELCOLOR SHINER	I	P	M	N	2	4.0	0.33	12	0.01	3.0
43-032	SPOTFIN SHINER	I		M	N	11	22.0	1.83	64	0.08	2.9
43-035	MIMIC SHINER	I	I	M	N	2	4.0	0.33	2	0.00	0.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	15	30.0	2.49	54	0.07	1.8
47-002	CHANNEL CATFISH			C	F	4	8.0	0.66	8500	10.30	1062.5
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	0.17	360	0.44	180.0
74-001	WHITE BASS	P		M	F	4	8.0	0.66	360	0.44	45.0
74-005	STR. BASS X WH. BASS				E	1	2.0	0.17	4500	5.45	2250.0
77-001	WHITE CRAPPIE	I		C	S	2	4.0	0.33	440	0.53	110.0
77-002	BLACK CRAPPIE	I		C	S	2	4.0	0.33	340	0.41	85.0
77-004	SMALLMOUTH BASS	C	M	C	F	30	60.0	4.98	3220	3.90	53.6
77-005	SPOTTED BASS	C		C	F	53	106.0	8.80	1860	2.25	17.5
77-008	GREEN SUNFISH	I	T	C	S	7	14.0	1.16	300	0.36	21.4
77-009	BLUEGILL SUNFISH	I	P	C	S	17	34.0	2.82	1200	1.45	35.2
77-011	LONGEAR SUNFISH	I	M	C	S	80	160.0	13.29	1304	1.58	8.1
80-001	SAUGER	P		S	F	1	2.0	0.17	180	0.22	90.0
85-001	FRESHWATER DRUM		P	M		80	160.0	13.29	5900	7.15	36.8

**No Species:** 23    **Nat. Species:** 22    **Hybrids:** 1    **Total Counted:** 602    **Total Rel. Wt. :** 82494

**IBI:** 40.0    **MIwb:** 10.1

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM12 River: 11-001 Little Miami River RM: 8.30 Date: 07/11/2012

Time Fished: 1344 Distance: 0.500 Drainge (sq mi): 1713.0 Depth: 0

Location: Lat: 39.13640 Long: -84.35030

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		3	6.0	1.69	1704	3.06	284.0
20-003	GIZZARD SHAD	O		M		11	22.0	6.18	3900	7.01	177.2
40-006	RIVER CARPSUCKER	O		M	C	2	4.0	1.12	3800	6.83	950.0
40-010	GOLDEN REDHORSE	I	M	S	R	1	2.0	0.56	1300	2.34	650.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	7	14.0	3.93	2120	3.81	151.4
40-023	SMALLMOUTH REDHORSE	I	M	S	R	10	20.0	5.62	6620	11.91	331.0
43-009	GRAVEL CHUB	I	M	S	N	2	4.0	1.12	18	0.03	4.5
43-020	EMERALD SHINER	I		M	N	25	50.0	14.04	86	0.15	1.7
43-031	STEELCOLOR SHINER	I	P	M	N	20	40.0	11.24	208	0.37	5.2
43-032	SPOTFIN SHINER	I		M	N	3	6.0	1.69	14	0.03	2.3
43-043	BLUNTNOSE MINNOW	O	T	C	N	13	26.0	7.30	26	0.05	1.0
43-044	CENTRAL STONEROLLER	H		N	N	2	4.0	1.12	14	0.03	3.5
47-002	CHANNEL CATFISH			C	F	9	18.0	5.06	11406	20.51	633.6
47-004	YELLOW BULLHEAD	I	T	C		5	10.0	2.81	17500	31.47	1750.0
47-009	MOUNTAIN MADTOM	I	R	C		2	4.0	1.12	6	0.01	1.5
77-004	SMALLMOUTH BASS	C	M	C	F	9	18.0	5.06	100	0.18	5.5
77-005	SPOTTED BASS	C		C	F	6	12.0	3.37	404	0.73	33.6
77-006	LARGEMOUTH BASS	C		C	F	1	2.0	0.56	600	1.08	300.0
77-008	GREEN SUNFISH	I	T	C	S	5	10.0	2.81	160	0.29	16.0
77-009	BLUEGILL SUNFISH	I	P	C	S	8	16.0	4.49	442	0.79	27.6
77-011	LONGEAR SUNFISH	I	M	C	S	24	48.0	13.48	660	1.19	13.7
80-001	SAUGER	P		S	F	1	2.0	0.56	500	0.90	250.0
85-001	FRESHWATER DRUM		P	M		9	18.0	5.06	4016	7.22	223.1

**No Species:** 23    **Nat. Species:** 23    **Hybrids:** 0    **Total Counted:** 178    **Total Rel. Wt. :** 55604

**IBI:** 40.0    **MIwb:** 9.6

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM12 River: 11-001 Little Miami River RM: 8.30 Date: 09/26/2012

Time Fished: 1574 Distance: 0.500 Drainge (sq mi): 1713.0 Depth: 0

Location: Lat: 39.13640 Long: -84.35030

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	2.0	0.39	80	0.14	40.0
20-001	SKIPJACK HERRING	P		M		1	2.0	0.39	40	0.07	20.0
20-003	GIZZARD SHAD	O		M		51	102.0	19.92	14500	25.50	142.1
40-004	SMALLMOUTH BUFFALO	I		M	C	3	6.0	1.17	5600	9.85	933.3
40-006	RIVER CARPSUCKER	O		M	C	3	6.0	1.17	5800	10.20	966.6
40-010	GOLDEN REDHORSE	I	M	S	R	4	8.0	1.56	1160	2.04	145.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	5	10.0	1.95	2420	4.26	242.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	5	10.0	1.95	5200	9.15	520.0
43-020	EMERALD SHINER	I		M	N	27	54.0	10.55	156	0.27	2.8
43-032	SPOTFIN SHINER	I		M	N	13	26.0	5.08	84	0.15	3.2
43-034	SAND SHINER	I	M	M	N	1	2.0	0.39	2	0.00	1.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	6	12.0	2.34	24	0.04	2.0
47-002	CHANNEL CATFISH			C	F	6	12.0	2.34	15100	26.56	1258.3
74-001	WHITE BASS	P		M	F	3	6.0	1.17	1120	1.97	186.6
77-002	BLACK CRAPPIE	I		C	S	1	2.0	0.39	180	0.32	90.0
77-004	SMALLMOUTH BASS	C	M	C	F	14	28.0	5.47	1400	2.46	50.0
77-005	SPOTTED BASS	C		C	F	35	70.0	13.67	1240	2.18	17.7
77-008	GREEN SUNFISH	I	T	C	S	3	6.0	1.17	120	0.21	20.0
77-009	BLUEGILL SUNFISH	I	P	C	S	4	8.0	1.56	170	0.30	21.2
77-011	LONGEAR SUNFISH	I	M	C	S	54	108.0	21.09	920	1.62	8.5
80-001	SAUGER	P		S	F	3	6.0	1.17	460	0.81	76.6
85-001	FRESHWATER DRUM		P	M		13	26.0	5.08	1080	1.90	41.5

**No Species:** 22    **Nat. Species:** 22    **Hybrids:** 0    **Total Counted:** 256    **Total Rel. Wt. :** 56856

**IBI:** 42.0    **MIwb:** 9.7

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM11 River: 11-001 Little Miami River RM: 11.20 Date: 08/01/2012

Time Fished: 1244 Distance: 0.350 Drainge (sq mi): 1710.0 Depth: 0

Location: Dst. Confluence with E. Fork LMR Lat: 39.15251 Long: -84.30492

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		4	11.4	2.52	5142	3.85	450.0
20-001	SKIPJACK HERRING	P		M		2	5.7	1.26	60	0.04	10.5
20-003	GIZZARD SHAD	O		M		24	68.6	15.09	13999	10.48	204.1
40-004	SMALLMOUTH BUFFALO	I		M	C	9	25.7	5.66	31569	23.64	1227.7
40-006	RIVER CARPSUCKER	O		M	C	5	14.3	3.14	15427	11.55	1080.0
40-008	SILVER REDHORSE	I	M	S	R	1	2.9	0.63	2142	1.60	750.0
40-010	GOLDEN REDHORSE	I	M	S	R	5	14.3	3.14	6942	5.20	486.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	1	2.9	0.63	171	0.13	60.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	5	14.3	3.14	5714	4.28	400.0
43-020	EMERALD SHINER	I		M	N	42	120.0	26.42	128	0.10	1.0
43-031	STEELCOLOR SHINER	I	P	M	N	1	2.9	0.63	11	0.01	4.0
43-032	SPOTFIN SHINER	I		M	N	2	5.7	1.26	31	0.02	5.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	1	2.9	0.63	5	0.00	2.0
47-002	CHANNEL CATFISH			C	F	10	28.6	6.29	28769	21.55	1007.0
74-001	WHITE BASS	P		M	F	1	2.9	0.63	1142	0.86	400.0
74-005	STR. BASS X WH. BASS				E	3	8.6	1.89	15427	11.55	1800.0
77-004	SMALLMOUTH BASS	C	M	C	F	5	14.3	3.14	2342	1.75	164.0
77-005	SPOTTED BASS	C		C	F	10	28.6	6.29	5	0.00	0.2
77-008	GREEN SUNFISH	I	T	C	S	2	5.7	1.26	85	0.06	15.0
77-009	BLUEGILL SUNFISH	I	P	C	S	11	31.4	6.92	771	0.58	24.5
77-011	LONGEAR SUNFISH	I	M	C	S	11	31.4	6.92	628	0.47	20.0
85-001	FRESHWATER DRUM		P	M		4	11.4	2.52	2999	2.25	262.5

**No Species:** 21    **Nat. Species:** 21    **Hybrids:** 1    **Total Counted:** 159    **Total Rel. Wt. :** 133521

**IBI:** 44.0    **MIwb:** 9.8

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM11 River: 11-001 Little Miami River RM: 11.20 Date: 09/20/2012

Time Fished: 1184 Distance: 0.500 Drainge (sq mi): 1710.0 Depth: 0

Location: Dst. Confluence with E. Fork LMR Lat: 39.15251 Long: -84.30492

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-001	SKIPJACK HERRING	P		M		1	2.0	0.27	100	0.06	50.0
20-003	GIZZARD SHAD	O		M		45	90.0	12.23	7340	4.55	81.5
40-002	BIGMOUTH BUFFALO	I		M	C	1	2.0	0.27	1400	0.87	700.0
40-004	SMALLMOUTH BUFFALO	I		M	C	19	38.0	5.16	79600	49.39	2094.7
40-005	QUILLBACK CARPSUCKER	O		M	C	2	4.0	0.54	4000	2.48	1000.0
40-008	SILVER REDHORSE	I	M	S	R	1	2.0	0.27	1400	0.87	700.0
40-010	GOLDEN REDHORSE	I	M	S	R	7	14.0	1.90	5040	3.13	360.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	9	18.0	2.45	1040	0.65	57.7
40-023	SMALLMOUTH REDHORSE	I	M	S	R	19	38.0	5.16	10940	6.79	287.8
43-001	COMMON CARP	O	T	M	G	4	8.0	1.09	18200	11.29	2275.0
43-020	EMERALD SHINER	I		M	N	67	134.0	18.21	150	0.09	1.1
43-031	STEELCOLOR SHINER	I	P	M	N	8	16.0	2.17	72	0.04	4.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	8	16.0	2.17	34	0.02	2.1
43-044	CENTRAL STONEROLLER	H		N	N	3	6.0	0.82	62	0.04	10.3
47-002	CHANNEL CATFISH			C	F	3	6.0	0.82	4590	2.85	765.0
74-001	WHITE BASS	P		M	F	5	10.0	1.36	200	0.12	20.0
77-003	ROCK BASS	C		C	S	2	4.0	0.54	30	0.02	7.5
77-004	SMALLMOUTH BASS	C	M	C	F	25	50.0	6.79	1820	1.13	36.4
77-005	SPOTTED BASS	C		C	F	11	22.0	2.99	800	0.50	36.3
77-006	LARGEMOUTH BASS	C		C	F	1	2.0	0.27	560	0.35	280.0
77-008	GREEN SUNFISH	I	T	C	S	2	4.0	0.54	100	0.06	25.0
77-009	BLUEGILL SUNFISH	I	P	C	S	4	8.0	1.09	240	0.15	30.0
77-011	LONGEAR SUNFISH	I	M	C	S	101	202.0	27.45	1460	0.91	7.2
80-001	SAUGER	P		S	F	1	2.0	0.27	700	0.43	350.0
85-001	FRESHWATER DRUM		P	M		19	38.0	5.16	21280	13.20	560.0

**No Species:** 25    **Nat. Species:** 24    **Hybrids:** 0    **Total Counted:** 368    **Total Rel. Wt. :** 161158

**IBI:** 44.0    **MIwb:** 10.0

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM10 River: 11-001 Little Miami River RM: 11.80 Date: 08/01/2012

Time Fished: 1688 Distance: 0.500 Drainge (sq mi): 1210.0 Depth: 0

Location: Ust. Confluence with E. Fork LMR Lat: 39.15971 Long: -84.30174

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		17	34.0	3.59	5800	6.10	170.5
40-004	SMALLMOUTH BUFFALO	I		M	C	3	6.0	0.63	8050	8.46	1341.6
40-006	RIVER CARPSUCKER	O		M	C	3	6.0	0.63	5700	5.99	950.0
40-010	GOLDEN REDHORSE	I	M	S	R	31	62.0	6.54	29720	31.24	479.3
40-013	RIVER REDHORSE	I	I	S	R	1	2.0	0.21	2000	2.10	1000.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	5	10.0	1.05	2340	2.46	234.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	10	20.0	2.11	8050	8.46	402.5
43-020	EMERALD SHINER	I		M	N	160	320.0	33.76	186	0.20	0.5
43-031	STEELCOLOR SHINER	I	P	M	N	3	6.0	0.63	22	0.02	3.6
43-032	SPOTFIN SHINER	I		M	N	4	8.0	0.84	24	0.03	3.0
43-034	SAND SHINER	I	M	M	N	8	16.0	1.69	10	0.01	0.6
43-043	BLUNTNOSE MINNOW	O	T	C	N	79	158.0	16.67	124	0.13	0.7
47-002	CHANNEL CATFISH			C	F	3	6.0	0.63	5002	5.26	833.6
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	0.21	10	0.01	5.0
77-004	SMALLMOUTH BASS	C	M	C	F	45	90.0	9.49	7940	8.35	88.2
77-005	SPOTTED BASS	C		C	F	8	16.0	1.69	260	0.27	16.2
77-008	GREEN SUNFISH	I	T	C	S	10	20.0	2.11	210	0.22	10.5
77-009	BLUEGILL SUNFISH	I	P	C	S	27	54.0	5.70	662	0.70	12.2
77-011	LONGEAR SUNFISH	I	M	C	S	38	76.0	8.02	1486	1.56	19.5
80-015	GREENSIDE DARTER	I	M	S	D	1	2.0	0.21	14	0.01	7.0
80-022	RAINBOW DARTER	I	M	S	D	1	2.0	0.21	4	0.00	2.0
85-001	FRESHWATER DRUM		P	M		16	32.0	3.38	17530	18.42	547.8

**No Species:** 22    **Nat. Species:** 22    **Hybrids:** 0    **Total Counted:** 474    **Total Rel. Wt. :** 95144

**IBI:** 42.0    **MIwb:** 9.9



# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM10 River: 11-001 Little Miami River RM: 11.80 Date: 09/20/2012

Time Fished: 2160 Distance: 0.500 Drainge (sq mi): 1210.0 Depth: 0

Location: Ust. Confluence with E. Fork LMR Lat: 39.15971 Long: -84.30174

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		173	346.0	28.79	25000	24.57	72.2
40-004	SMALLMOUTH BUFFALO	I		M	C	4	8.0	0.67	12200	11.99	1525.0
40-005	QUILLBACK CARPSUCKER	O		M	C	2	4.0	0.33	2600	2.56	650.0
40-010	GOLDEN REDHORSE	I	M	S	R	29	58.0	4.83	16700	16.41	287.9
40-015	NORTHERN HOG SUCKER	I	M	S	R	9	18.0	1.50	2600	2.56	144.4
40-023	SMALLMOUTH REDHORSE	I	M	S	R	4	8.0	0.67	2460	2.42	307.5
43-001	COMMON CARP	O	T	M	G	1	2.0	0.17	1800	1.77	900.0
43-020	EMERALD SHINER	I		M	N	131	262.0	21.80	360	0.35	1.3
43-031	STEELCOLOR SHINER	I	P	M	N	2	4.0	0.33	22	0.02	5.5
43-032	SPOTFIN SHINER	I		M	N	2	4.0	0.33	8	0.01	2.0
43-035	MIMIC SHINER	I	I	M	N	3	6.0	0.50	6	0.01	1.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	12	24.0	2.00	70	0.07	2.9
47-002	CHANNEL CATFISH			C	F	1	2.0	0.17	4	0.00	2.0
47-004	YELLOW BULLHEAD	I	T	C		1	2.0	0.17	100	0.10	50.0
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	0.17	10	0.01	5.0
47-009	MOUNTAIN MADTOM	I	R	C		1	2.0	0.17	2	0.00	1.0
77-004	SMALLMOUTH BASS	C	M	C	F	62	124.0	10.32	17140	16.84	138.2
77-005	SPOTTED BASS	C		C	F	14	28.0	2.33	1160	1.14	41.4
77-008	GREEN SUNFISH	I	T	C	S	5	10.0	0.83	250	0.25	25.0
77-009	BLUEGILL SUNFISH	I	P	C	S	10	20.0	1.66	330	0.32	16.5
77-011	LONGEAR SUNFISH	I	M	C	S	117	234.0	19.47	2526	2.48	10.7
77-012	REDEAR SUNFISH	I		C	E	2	4.0	0.33	100	0.10	25.0
80-001	SAUGER	P		S	F	2	4.0	0.33	2000	1.97	500.0
80-007	SLENDERHEAD DARTER	I	R	S	D	1	2.0	0.17	6	0.01	3.0
80-016	BANDED DARTER	I	I	S	D	2	4.0	0.33	2	0.00	0.5
85-001	FRESHWATER DRUM		P	M		10	20.0	1.66	14300	14.05	715.0

**No Species:** 26    **Nat. Species:** 24    **Hybrids:** 0    **Total Counted:** 601    **Total Rel. Wt. :** 101756  
**IBI:** 42.0    **MIwb:** 9.9

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM09 River: 11-001 Little Miami River RM: 12.90 Date: 08/01/2012  
 Time Fished: 1034 Distance: 0.500 Drainge (sq mi): 1200.0 Depth: 0  
 Location: Milford Canoe Launch; US 50 bridge Lat: 39.17246 Long: -84.29862

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	2.0	0.41	1500	1.20	750.0
20-001	SKIPJACK HERRING	P		M		3	6.0	1.22	64	0.05	10.6
20-003	GIZZARD SHAD	O		M		2	4.0	0.82	460	0.37	115.0
40-003	BLACK BUFFALO	I		M	C	1	2.0	0.41	8600	6.91	4300.0
40-004	SMALLMOUTH BUFFALO	I		M	C	15	30.0	6.12	45800	36.79	1526.6
40-006	RIVER CARPSUCKER	O		M	C	1	2.0	0.41	3400	2.73	1700.0
40-008	SILVER REDHORSE	I	M	S	R	1	2.0	0.41	5000	4.02	2500.0
40-010	GOLDEN REDHORSE	I	M	S	R	12	24.0	4.90	10100	8.11	420.8
40-013	RIVER REDHORSE	I	I	S	R	1	2.0	0.41	3000	2.41	1500.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	7	14.0	2.86	2600	2.09	185.7
40-023	SMALLMOUTH REDHORSE	I	M	S	R	22	44.0	8.98	17540	14.09	398.6
43-001	COMMON CARP	O	T	M	G	1	2.0	0.41	6200	4.98	3100.0
43-020	EMERALD SHINER	I		M	N	130	260.0	53.06	226	0.18	0.8
43-031	STEELCOLOR SHINER	I	P	M	N	1	2.0	0.41	6	0.00	3.0
43-035	MIMIC SHINER	I	I	M	N	2	4.0	0.82	2	0.00	0.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	1	2.0	0.41	2	0.00	1.0
47-002	CHANNEL CATFISH			C	F	5	10.0	2.04	3976	3.19	397.6
74-001	WHITE BASS	P		M	F	1	2.0	0.41	900	0.72	450.0
74-005	STR. BASS X WH. BASS				E	1	2.0	0.41	1000	0.80	500.0
77-004	SMALLMOUTH BASS	C	M	C	F	11	22.0	4.49	930	0.75	42.2
77-005	SPOTTED BASS	C		C	F	3	6.0	1.22	740	0.59	123.3
77-011	LONGEAR SUNFISH	I	M	C	S	10	20.0	4.08	400	0.32	20.0
77-021	GREEN SF X LONGEAR SF					2	4.0	0.82	240	0.19	60.0
80-026	SAUGER X WALLEYE	P			E	2	4.0	0.82	1000	0.80	250.0
85-001	FRESHWATER DRUM		P	M		9	18.0	3.67	10820	8.69	601.1

**No Species:** 22    **Nat. Species:** 21    **Hybrids:** 3    **Total Counted:** 245    **Total Rel. Wt. :** 124506  
**IBI:** 44.0    **MIwb:** 9.4

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM09 River: 11-001 Little Miami River RM: 12.90 Date: 09/20/2012

Time Fished: 1297 Distance: 0.500 Drainge (sq mi): 1200.0 Depth: 0

Location: Milford Canoe Launch; US 50 bridge Lat: 39.17246 Long: -84.29862

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-001	SKIPJACK HERRING	P		M		1	2.0	0.14	140	0.07	70.0
20-003	GIZZARD SHAD	O		M		111	222.0	15.99	23640	12.61	106.4
40-004	SMALLMOUTH BUFFALO	I		M	C	23	46.0	3.31	90900	48.47	1976.0
40-008	SILVER REDHORSE	I	M	S	R	2	4.0	0.29	7200	3.84	1800.0
40-010	GOLDEN REDHORSE	I	M	S	R	3	6.0	0.43	2440	1.30	406.6
40-013	RIVER REDHORSE	I	I	S	R	3	6.0	0.43	13800	7.36	2300.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	12	24.0	1.73	4930	2.63	205.4
40-023	SMALLMOUTH REDHORSE	I	M	S	R	41	82.0	5.91	29460	15.71	359.2
43-020	EMERALD SHINER	I		M	N	370	740.0	53.31	838	0.45	1.1
43-031	STEELCOLOR SHINER	I	P	M	N	4	8.0	0.58	44	0.02	5.5
43-032	SPOTFIN SHINER	I		M	N	2	4.0	0.29	4	0.00	1.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	1	2.0	0.14	6	0.00	3.0
47-002	CHANNEL CATFISH			C	F	4	8.0	0.58	4030	2.15	503.7
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	0.14	20	0.01	10.0
47-008	STONECAT MADTOM	I	I	C		1	2.0	0.14	8	0.00	4.0
74-001	WHITE BASS	P		M	F	1	2.0	0.14	160	0.09	80.0
77-004	SMALLMOUTH BASS	C	M	C	F	29	58.0	4.18	4140	2.21	71.3
77-005	SPOTTED BASS	C		C	F	24	48.0	3.46	570	0.30	11.8
77-008	GREEN SUNFISH	I	T	C	S	3	6.0	0.43	120	0.06	20.0
77-009	BLUEGILL SUNFISH	I	P	C	S	5	10.0	0.72	260	0.14	26.0
77-011	LONGEAR SUNFISH	I	M	C	S	49	98.0	7.06	882	0.47	9.0
77-012	REDEAR SUNFISH	I		C	E	1	2.0	0.14	80	0.04	40.0
80-001	SAUGER	P		S	F	1	2.0	0.14	600	0.32	300.0
85-001	FRESHWATER DRUM		P	M		2	4.0	0.29	3260	1.74	815.0

**No Species:** 24    **Nat. Species:** 23    **Hybrids:** 0    **Total Counted:** 694    **Total Rel. Wt. :** 187532

**IBI:** 44.0    **MIwb:** 9.7

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM08 River: 11-001 Little Miami River RM: 17.60 Date: 07/31/2012

Time Fished: 1403 Distance: 0.500 Drainge (sq mi): 1190.0 Depth: 0

Location: Adj. Kelly Nature Preserve Lat: 39.20942 Long: -84.30300

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		3	6.0	1.89	1090	0.80	181.6
20-003	GIZZARD SHAD	O		M		1	2.0	0.63	400	0.30	200.0
40-004	SMALLMOUTH BUFFALO	I		M	C	6	12.0	3.77	28600	21.11	2383.3
40-005	QUILLBACK CARPSUCKER	O		M	C	1	2.0	0.63	1600	1.18	800.0
40-006	RIVER CARPSUCKER	O		M	C	3	6.0	1.89	5200	3.84	866.6
40-008	SILVER REDHORSE	I	M	S	R	5	10.0	3.14	17800	13.14	1780.0
40-010	GOLDEN REDHORSE	I	M	S	R	13	26.0	8.18	9860	7.28	379.2
40-013	RIVER REDHORSE	I	I	S	R	3	6.0	1.89	12400	9.15	2066.6
40-023	SMALLMOUTH REDHORSE	I	M	S	R	9	18.0	5.66	7280	5.37	404.4
43-001	COMMON CARP	O	T	M	G	1	2.0	0.63	3800	2.80	1900.0
43-020	EMERALD SHINER	I		M	N	14	28.0	8.81	18	0.01	0.6
43-031	STEELCOLOR SHINER	I	P	M	N	1	2.0	0.63	8	0.01	4.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	6	12.0	3.77	16	0.01	1.3
47-002	CHANNEL CATFISH			C	F	7	14.0	4.40	15740	11.62	1124.2
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	0.63	800	0.59	400.0
77-004	SMALLMOUTH BASS	C	M	C	F	21	42.0	13.21	3260	2.41	77.6
77-005	SPOTTED BASS	C		C	F	14	28.0	8.81	180	0.13	6.4
77-008	GREEN SUNFISH	I	T	C	S	1	2.0	0.63	100	0.07	50.0
77-009	BLUEGILL SUNFISH	I	P	C	S	19	38.0	11.95	502	0.37	13.2
77-011	LONGEAR SUNFISH	I	M	C	S	8	16.0	5.03	600	0.44	37.5
80-011	LOGPERCH	I	M	S	D	1	2.0	0.63	100	0.07	50.0
85-001	FRESHWATER DRUM		P	M		21	42.0	13.21	26148	19.30	622.5

**No Species:** 22    **Nat. Species:** 21    **Hybrids:** 0    **Total Counted:** 159    **Total Rel. Wt. :** 135502

**IBI:** 42.0    **MIwb:** 10.2

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM08 River: 11-001 Little Miami River RM: 17.60 Date: 09/19/2012

Time Fished: 1744 Distance: 0.500 Drainge (sq mi): 1190.0 Depth: 0

Location: Adj. Kelly Nature Preserve Lat: 39.20942 Long: -84.30300

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		121	242.0	22.41	27750	21.52	114.6
40-004	SMALLMOUTH BUFFALO	I		M	C	4	8.0	0.74	13900	10.78	1737.5
40-006	RIVER CARPSUCKER	O		M	C	2	4.0	0.37	5000	3.88	1250.0
40-008	SILVER REDHORSE	I	M	S	R	2	4.0	0.37	6800	5.27	1700.0
40-010	GOLDEN REDHORSE	I	M	S	R	19	38.0	3.52	11820	9.17	311.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	2	4.0	0.37	1500	1.16	375.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	49	98.0	9.07	39500	30.63	403.0
43-020	EMERALD SHINER	I		M	N	162	324.0	30.00	274	0.21	0.8
43-032	SPOTFIN SHINER	I		M	N	1	2.0	0.19	4	0.00	2.0
43-034	SAND SHINER	I	M	M	N	3	6.0	0.56	4	0.00	0.6
43-035	MIMIC SHINER	I	I	M	N	18	36.0	3.33	22	0.02	0.6
43-043	BLUNTNOSE MINNOW	O	T	C	N	33	66.0	6.11	94	0.07	1.4
47-002	CHANNEL CATFISH			C	F	3	6.0	0.56	2620	2.03	436.6
47-007	FLATHEAD CATFISH	P		C	F	2	4.0	0.37	2800	2.17	700.0
47-008	STONECAT MADTOM	I	I	C		1	2.0	0.19	10	0.01	5.0
77-004	SMALLMOUTH BASS	C	M	C	F	18	36.0	3.33	3480	2.70	96.6
77-005	SPOTTED BASS	C		C	F	20	40.0	3.70	560	0.43	14.0
77-008	GREEN SUNFISH	I	T	C	S	3	6.0	0.56	100	0.08	16.6
77-009	BLUEGILL SUNFISH	I	P	C	S	14	28.0	2.59	600	0.47	21.4
77-011	LONGEAR SUNFISH	I	M	C	S	49	98.0	9.07	900	0.70	9.1
80-001	SAUGER	P		S	F	1	2.0	0.19	1300	1.01	650.0
80-016	BANDED DARTER	I	I	S	D	1	2.0	0.19	2	0.00	1.0
85-001	FRESHWATER DRUM		P	M		12	24.0	2.22	9920	7.69	413.3

**No Species:** 23    **Nat. Species:** 23    **Hybrids:** 0    **Total Counted:** 540    **Total Rel. Wt. :** 128960

**IBI:** 42.0    **MIwb:** 10.2

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM07 River: 11-001 Little Miami River RM: 18.40 Date: 07/31/2012  
 Time Fished: 1997 Distance: 0.500 Drainge (sq mi): 1190.0 Depth: 0  
 Location: Adj. Glendale Milford Rd. Lat: 39.21709 Long: -84.31494

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	2.0	0.24	40	0.03	20.0
20-001	SKIPJACK HERRING	P		M		1	2.0	0.24	16	0.01	8.0
20-003	GIZZARD SHAD	O		M		5	10.0	1.20	1100	0.96	110.0
40-004	SMALLMOUTH BUFFALO	I		M	C	3	6.0	0.72	13500	11.80	2250.0
40-006	RIVER CARPSUCKER	O		M	C	2	4.0	0.48	4000	3.50	1000.0
40-008	SILVER REDHORSE	I	M	S	R	5	10.0	1.20	16000	13.98	1600.0
40-010	GOLDEN REDHORSE	I	M	S	R	19	38.0	4.56	14420	12.60	379.4
40-015	NORTHERN HOG SUCKER	I	M	S	R	6	12.0	1.44	2460	2.15	205.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	6	12.0	1.44	5180	4.53	431.6
43-001	COMMON CARP	O	T	M	G	2	4.0	0.48	11900	10.40	2975.0
43-020	EMERALD SHINER	I		M	N	102	204.0	24.46	150	0.13	0.7
43-032	SPOTFIN SHINER	I		M	N	4	8.0	0.96	24	0.02	3.0
43-034	SAND SHINER	I	M	M	N	4	8.0	0.96	6	0.01	0.7
43-035	MIMIC SHINER	I	I	M	N	4	8.0	0.96	12	0.01	1.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	158	316.0	37.89	180	0.16	0.5
47-002	CHANNEL CATFISH			C	F	7	14.0	1.68	17324	15.14	1237.4
47-007	FLATHEAD CATFISH	P		C	F	3	6.0	0.72	840	0.73	140.0
74-001	WHITE BASS	P		M	F	1	2.0	0.24	800	0.70	400.0
77-002	BLACK CRAPPIE	I		C	S	1	2.0	0.24	360	0.31	180.0
77-004	SMALLMOUTH BASS	C	M	C	F	25	50.0	6.00	2660	2.32	53.2
77-005	SPOTTED BASS	C		C	F	12	24.0	2.88	1740	1.52	72.5
77-008	GREEN SUNFISH	I	T	C	S	1	2.0	0.24	20	0.02	10.0
77-009	BLUEGILL SUNFISH	I	P	C	S	16	32.0	3.84	480	0.42	15.0
77-011	LONGEAR SUNFISH	I	M	C	S	14	28.0	3.36	600	0.52	21.4
85-001	FRESHWATER DRUM		P	M		15	30.0	3.60	20600	18.01	686.6

**No Species:** 25    **Nat. Species:** 24    **Hybrids:** 0    **Total Counted:** 417    **Total Rel. Wt. :** 114412  
**IBI:** 38.0    **MIwb:** 9.9

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM07 River: 11-001 Little Miami River RM: 18.40 Date: 09/19/2012

Time Fished: 2194 Distance: 0.500 Drainge (sq mi): 1190.0 Depth: 0

Location: Adj. Glendale Milford Rd. Lat: 39.21709 Long: -84.31494

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		130	260.0	26.80	8180	5.91	31.4
40-004	SMALLMOUTH BUFFALO	I		M	C	11	22.0	2.27	41000	29.60	1863.6
40-006	RIVER CARPSUCKER	O		M	C	3	6.0	0.62	5800	4.19	966.6
40-008	SILVER REDHORSE	I	M	S	R	1	2.0	0.21	4200	3.03	2100.0
40-010	GOLDEN REDHORSE	I	M	S	R	19	38.0	3.92	11574	8.36	304.5
40-013	RIVER REDHORSE	I	I	S	R	2	4.0	0.41	1040	0.75	260.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	2	4.0	0.41	3400	2.45	850.0
43-001	COMMON CARP	O	T	M	G	1	2.0	0.21	6200	4.48	3100.0
43-020	EMERALD SHINER	I		M	N	147	294.0	30.31	272	0.20	0.9
43-032	SPOTFIN SHINER	I		M	N	1	2.0	0.21	6	0.00	3.0
43-034	SAND SHINER	I	M	M	N	1	2.0	0.21	4	0.00	2.0
43-035	MIMIC SHINER	I	I	M	N	15	30.0	3.09	32	0.02	1.0
43-039	SILVERJAW MINNOW	I		M	N	1	2.0	0.21	6	0.00	3.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	30	60.0	6.19	84	0.06	1.4
47-002	CHANNEL CATFISH			C	F	10	20.0	2.06	40500	29.24	2025.0
77-003	ROCK BASS	C		C	S	1	2.0	0.21	60	0.04	30.0
77-004	SMALLMOUTH BASS	C	M	C	F	23	46.0	4.74	3200	2.31	69.5
77-005	SPOTTED BASS	C		C	F	18	36.0	3.71	720	0.52	20.0
77-008	GREEN SUNFISH	I	T	C	S	1	2.0	0.21	6	0.00	3.0
77-009	BLUEGILL SUNFISH	I	P	C	S	12	24.0	2.47	326	0.24	13.5
77-011	LONGEAR SUNFISH	I	M	C	S	39	78.0	8.04	656	0.47	8.4
80-007	SLENDERHEAD DARTER	I	R	S	D	2	4.0	0.41	8	0.01	2.0
80-011	LOGPERCH	I	M	S	D	1	2.0	0.21	6	0.00	3.0
85-001	FRESHWATER DRUM		P	M		14	28.0	2.89	11220	8.10	400.7

**No Species:** 24    **Nat. Species:** 23    **Hybrids:** 0    **Total Counted:** 485    **Total Rel. Wt. :** 138500

**IBI:** 40.0    **MIwb:** 10.0

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM06 River: 11-001 Little Miami River RM: 20.60 Date: 07/24/2012  
 Time Fished: 1823 Distance: 0.500 Drainge (sq mi): 1161.0 Depth: 0  
 Location: L. MIAMI R. ADJ LAKE ISABELLA Lat: 39.23556 Long: 84.29917

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		2	4.0	0.56	2200	2.48	550.0
20-003	GIZZARD SHAD	O		M		3	6.0	0.84	1500	1.69	250.0
40-004	SMALLMOUTH BUFFALO	I		M	C	3	6.0	0.84	6800	7.68	1133.3
40-006	RIVER CARPSUCKER	O		M	C	12	24.0	3.37	21100	23.83	879.1
40-010	GOLDEN REDHORSE	I	M	S	R	23	46.0	6.46	20760	23.44	451.3
40-015	NORTHERN HOG SUCKER	I	M	S	R	13	26.0	3.65	5200	5.87	200.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	6	12.0	1.69	3970	4.48	330.8
43-001	COMMON CARP	O	T	M	G	1	2.0	0.28	5600	6.32	2800.0
43-020	EMERALD SHINER	I		M	N	135	270.0	37.92	152	0.17	0.5
43-031	STEELCOLOR SHINER	I	P	M	N	8	16.0	2.25	148	0.17	9.2
43-032	SPOTFIN SHINER	I		M	N	5	10.0	1.40	26	0.03	2.6
43-034	SAND SHINER	I	M	M	N	5	10.0	1.40	12	0.01	1.2
43-035	MIMIC SHINER	I	I	M	N	5	10.0	1.40	18	0.02	1.8
43-043	BLUNTNOSE MINNOW	O	T	C	N	72	144.0	20.22	110	0.12	0.7
43-044	CENTRAL STONEROLLER	H		N	N	2	4.0	0.56	18	0.02	4.5
47-002	CHANNEL CATFISH			C	F	3	6.0	0.84	10400	11.74	1733.3
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	0.28	300	0.34	150.0
77-003	ROCK BASS	C		C	S	1	2.0	0.28	10	0.01	5.0
77-004	SMALLMOUTH BASS	C	M	C	F	14	28.0	3.93	2802	3.16	100.0
77-005	SPOTTED BASS	C		C	F	8	16.0	2.25	50	0.06	3.1
77-008	GREEN SUNFISH	I	T	C	S	1	2.0	0.28	10	0.01	5.0
77-009	BLUEGILL SUNFISH	I	P	C	S	13	26.0	3.65	320	0.36	12.3
77-011	LONGEAR SUNFISH	I	M	C	S	15	30.0	4.21	840	0.95	28.0
80-007	SLENDERHEAD DARTER	I	R	S	D	1	2.0	0.28	10	0.01	5.0
85-001	FRESHWATER DRUM		P	M		4	8.0	1.12	6200	7.00	775.0

**No Species:** 25    **Nat. Species:** 24    **Hybrids:** 0    **Total Counted:** 356    **Total Rel. Wt. :** 88556  
**IBI:** 42.0    **MIwb:** 9.8



# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM06 River: 11-001 Little Miami River RM: 20.60 Date: 09/19/2012  
 Time Fished: 1741 Distance: 0.500 Drainge (sq mi): 1161.0 Depth: 0  
 Location: L. MIAMI R. ADJ LAKE ISABELLA Lat: 39.23556 Long: 84.29917

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		92	184.0	14.56	7720	10.20	41.9
40-004	SMALLMOUTH BUFFALO	I		M	C	2	4.0	0.32	3800	5.02	950.0
40-006	RIVER CARPSUCKER	O		M	C	8	16.0	1.27	14400	19.02	900.0
40-010	GOLDEN REDHORSE	I	M	S	R	12	24.0	1.90	9700	12.81	404.1
40-013	RIVER REDHORSE	I	I	S	R	1	2.0	0.16	3100	4.09	1550.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	9	18.0	1.42	4200	5.55	233.3
40-023	SMALLMOUTH REDHORSE	I	M	S	R	6	12.0	0.95	3356	4.43	279.6
43-001	COMMON CARP	O	T	M	G	2	4.0	0.32	10700	14.13	2675.0
43-020	EMERALD SHINER	I		M	N	237	474.0	37.50	590	0.78	1.2
43-031	STEELCOLOR SHINER	I	P	M	N	3	6.0	0.47	6	0.01	1.0
43-032	SPOTFIN SHINER	I		M	N	5	10.0	0.79	12	0.02	1.2
43-035	MIMIC SHINER	I	I	M	N	79	158.0	12.50	62	0.08	0.3
43-043	BLUNTNOSE MINNOW	O	T	C	N	38	76.0	6.01	66	0.09	0.8
43-044	CENTRAL STONEROLLER	H		N	N	9	18.0	1.42	100	0.13	5.5
47-002	CHANNEL CATFISH			C	F	5	10.0	0.79	8460	11.17	846.0
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	0.16	500	0.66	250.0
47-009	MOUNTAIN MADTOM	I	R	C		1	2.0	0.16	2	0.00	1.0
70-001	BROOK SILVERSIDE	I	M	M		1	2.0	0.16	2	0.00	1.0
74-001	WHITE BASS	P		M	F	2	4.0	0.32	240	0.32	60.0
77-003	ROCK BASS	C		C	S	2	4.0	0.32	100	0.13	25.0
77-004	SMALLMOUTH BASS	C	M	C	F	34	68.0	5.38	4490	5.93	66.0
77-005	SPOTTED BASS	C		C	F	11	22.0	1.74	400	0.53	18.1
77-008	GREEN SUNFISH	I	T	C	S	2	4.0	0.32	20	0.03	5.0
77-009	BLUEGILL SUNFISH	I	P	C	S	6	12.0	0.95	102	0.13	8.5
77-011	LONGEAR SUNFISH	I	M	C	S	54	108.0	8.54	884	1.17	8.1
80-015	GREENSIDE DARTER	I	M	S	D	1	2.0	0.16	4	0.01	2.0
80-022	RAINBOW DARTER	I	M	S	D	1	2.0	0.16	4	0.01	2.0
85-001	FRESHWATER DRUM		P	M		8	16.0	1.27	2700	3.57	168.7

**No Species:** 28    **Nat. Species:** 27    **Hybrids:** 0    **Total Counted:** 632    **Total Rel. Wt. :** 75720  
**IBI:** 46.0    **MIwb:** 10.2

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM05 River: 11-001 Little Miami River RM: 21.25 Date: 07/17/2012

Time Fished: 1508 Distance: 0.500 Drainge (sq mi): 1160.0 Depth: 0

Location: Dst. Bridge St. Lat: 39.24639 Long: -84.29568

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		2	4.0	1.54	1800	1.08	450.0
20-003	GIZZARD SHAD	O		M		4	8.0	3.08	1520	0.91	190.0
40-004	SMALLMOUTH BUFFALO	I		M	C	20	40.0	15.38	73500	43.92	1837.5
40-005	QUILLBACK CARPSUCKER	O		M	C	1	2.0	0.77	1400	0.84	700.0
40-006	RIVER CARPSUCKER	O		M	C	1	2.0	0.77	1700	1.02	850.0
40-008	SILVER REDHORSE	I	M	S	R	2	4.0	1.54	7200	4.30	1800.0
40-010	GOLDEN REDHORSE	I	M	S	R	17	34.0	13.08	16100	9.62	473.5
40-015	NORTHERN HOG SUCKER	I	M	S	R	5	10.0	3.85	670	0.40	67.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	4	8.0	3.08	3300	1.97	412.5
43-020	EMERALD SHINER	I		M	N	5	10.0	3.85	18	0.01	1.8
43-032	SPOTFIN SHINER	I		M	N	2	4.0	1.54	8	0.00	2.0
43-035	MIMIC SHINER	I	I	M	N	14	28.0	10.77	30	0.02	1.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	18	36.0	13.85	40	0.02	1.1
47-002	CHANNEL CATFISH			C	F	12	24.0	9.23	37950	22.68	1581.2
74-001	WHITE BASS	P		M	F	1	2.0	0.77	400	0.24	200.0
77-004	SMALLMOUTH BASS	C	M	C	F	7	14.0	5.38	2520	1.51	180.0
77-011	LONGEAR SUNFISH	I	M	C	S	4	8.0	3.08	400	0.24	50.0
85-001	FRESHWATER DRUM		P	M		11	22.0	8.46	18800	11.23	854.5

**No Species:** 18    **Nat. Species:** 18    **Hybrids:** 0    **Total Counted:** 130    **Total Rel. Wt. :** 167356

**IBI:** 38.0    **MIwb:** 9.5

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM05 River: 11-001 Little Miami River RM: 21.25 Date: 09/13/2012  
 Time Fished: 1627 Distance: 0.500 Drainge (sq mi): 1160.0 Depth: 0  
 Location: Dst. Bridge St. Lat: 39.24639 Long: -84.29568

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	2.0	0.17	1200	1.04	600.0
20-003	GIZZARD SHAD	O		M		35	70.0	6.06	8540	7.40	122.0
40-004	SMALLMOUTH BUFFALO	I		M	C	8	16.0	1.38	30200	26.15	1887.5
40-006	RIVER CARPSUCKER	O		M	C	1	2.0	0.17	2000	1.73	1000.0
40-008	SILVER REDHORSE	I	M	S	R	1	2.0	0.17	2000	1.73	1000.0
40-009	BLACK REDHORSE	I	I	S	R	1	2.0	0.17	1200	1.04	600.0
40-010	GOLDEN REDHORSE	I	M	S	R	19	38.0	3.29	25000	21.65	657.8
40-013	RIVER REDHORSE	I	I	S	R	2	4.0	0.35	4200	3.64	1050.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	7	14.0	1.21	1050	0.91	75.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	8	16.0	1.38	6600	5.72	412.5
43-001	COMMON CARP	O	T	M	G	1	2.0	0.17	6200	5.37	3100.0
43-020	EMERALD SHINER	I		M	N	346	692.0	59.86	740	0.64	1.0
43-031	STEELCOLOR SHINER	I	P	M	N	4	8.0	0.69	72	0.06	9.0
43-032	SPOTFIN SHINER	I		M	N	2	4.0	0.35	2	0.00	0.5
43-034	SAND SHINER	I	M	M	N	2	4.0	0.35	2	0.00	0.5
43-035	MIMIC SHINER	I	I	M	N	22	44.0	3.81	36	0.03	0.8
43-043	BLUNTNOSE MINNOW	O	T	C	N	35	70.0	6.06	84	0.07	1.2
47-002	CHANNEL CATFISH			C	F	8	16.0	1.38	14300	12.38	893.7
47-004	YELLOW BULLHEAD	I	T	C		1	2.0	0.17	80	0.07	40.0
47-007	FLATHEAD CATFISH	P		C	F	2	4.0	0.35	1802	1.56	450.5
74-001	WHITE BASS	P		M	F	3	6.0	0.52	720	0.62	120.0
77-003	ROCK BASS	C		C	S	1	2.0	0.17	80	0.07	40.0
77-004	SMALLMOUTH BASS	C	M	C	F	26	52.0	4.50	2380	2.06	45.7
77-005	SPOTTED BASS	C		C	F	5	10.0	0.87	160	0.14	16.0
77-006	LARGEMOUTH BASS	C		C	F	2	4.0	0.35	80	0.07	20.0
77-009	BLUEGILL SUNFISH	I	P	C	S	6	12.0	1.04	78	0.07	6.5
77-011	LONGEAR SUNFISH	I	M	C	S	26	52.0	4.50	436	0.38	8.3
85-001	FRESHWATER DRUM		P	M		3	6.0	0.52	6240	5.40	1040.0

**No Species:** 28    **Nat. Species:** 27    **Hybrids:** 0    **Total Counted:** 578    **Total Rel. Wt. :** 115482  
**IBI:** 46.0    **MIwb:** 9.9

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM04 River: 11-001 Little Miami River RM: 21.70 Date: 07/17/2012

Time Fished: 1358 Distance: 0.500 Drainge (sq mi): 1150.0 Depth: 0

Location: Lat: 0.00000 Long: 0.00000

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		25	50.0	12.95	6000	5.26	120.0
40-004	SMALLMOUTH BUFFALO	I		M	C	2	4.0	1.04	7800	6.83	1950.0
40-006	RIVER CARPSUCKER	O		M	C	10	20.0	5.18	20700	18.14	1035.0
40-008	SILVER REDHORSE	I	M	S	R	2	4.0	1.04	4200	3.68	1050.0
40-010	GOLDEN REDHORSE	I	M	S	R	53	106.0	27.46	52820	46.28	498.3
40-015	NORTHERN HOG SUCKER	I	M	S	R	4	8.0	2.07	1760	1.54	220.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	11	22.0	5.70	8100	7.10	368.1
43-020	EMERALD SHINER	I		M	N	15	30.0	7.77	68	0.06	2.2
43-031	STEELCOLOR SHINER	I	P	M	N	3	6.0	1.55	36	0.03	6.0
43-035	MIMIC SHINER	I	I	M	N	2	4.0	1.04	6	0.01	1.5
47-002	CHANNEL CATFISH			C	F	6	12.0	3.11	7920	6.94	660.0
77-003	ROCK BASS	C		C	S	2	4.0	1.04	360	0.32	90.0
77-004	SMALLMOUTH BASS	C	M	C	F	11	22.0	5.70	1780	1.56	80.9
77-005	SPOTTED BASS	C		C	F	6	12.0	3.11	510	0.45	42.5
77-009	BLUEGILL SUNFISH	I	P	C	S	24	48.0	12.44	800	0.70	16.6
77-011	LONGEAR SUNFISH	I	M	C	S	13	26.0	6.74	720	0.63	27.6
80-011	LOGPERCH	I	M	S	D	3	6.0	1.55	160	0.14	26.6
85-001	FRESHWATER DRUM		P	M		1	2.0	0.52	400	0.35	200.0

**No Species:** 18    **Nat. Species:** 18    **Hybrids:** 0    **Total Counted:** 193    **Total Rel. Wt. :** 114140

**IBI:** 42.0    **MIwb:** 9.5

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM04 River: 11-001 Little Miami River RM: 21.70 Date: 09/13/2012

Time Fished: 1452 Distance: 0.500 Drainge (sq mi): 1150.0 Depth: 0

Location: Lat: 0.00000 Long: 0.00000

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		83	166.0	26.95	9560	4.40	57.5
40-004	SMALLMOUTH BUFFALO	I		M	C	7	14.0	2.27	42200	19.41	3014.2
40-005	QUILLBACK CARPSUCKER	O		M	C	5	10.0	1.62	8700	4.00	870.0
40-006	RIVER CARPSUCKER	O		M	C	23	46.0	7.47	45800	21.07	995.6
40-008	SILVER REDHORSE	I	M	S	R	5	10.0	1.62	21400	9.84	2140.0
40-009	BLACK REDHORSE	I	I	S	R	1	2.0	0.32	1000	0.46	500.0
40-010	GOLDEN REDHORSE	I	M	S	R	35	70.0	11.36	32100	14.77	458.5
40-013	RIVER REDHORSE	I	I	S	R	1	2.0	0.32	5000	2.30	2500.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	3	6.0	0.97	1660	0.76	276.6
40-023	SMALLMOUTH REDHORSE	I	M	S	R	9	18.0	2.92	6100	2.81	338.8
43-001	COMMON CARP	O	T	M	G	1	2.0	0.32	4500	2.07	2250.0
43-020	EMERALD SHINER	I		M	N	45	90.0	14.61	94	0.04	1.0
43-032	SPOTFIN SHINER	I		M	N	1	2.0	0.32	14	0.01	7.0
43-035	MIMIC SHINER	I	I	M	N	3	6.0	0.97	2	0.00	0.3
43-043	BLUNTNOSE MINNOW	O	T	C	N	16	32.0	5.19	60	0.03	1.8
43-044	CENTRAL STONEROLLER	H		N	N	3	6.0	0.97	62	0.03	10.3
47-002	CHANNEL CATFISH			C	F	5	10.0	1.62	18710	8.61	1871.0
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	0.32	1800	0.83	900.0
47-008	STONECAT MADTOM	I	I	C		2	4.0	0.65	30	0.01	7.5
74-001	WHITE BASS	P		M	F	1	2.0	0.32	240	0.11	120.0
77-003	ROCK BASS	C		C	S	1	2.0	0.32	80	0.04	40.0
77-004	SMALLMOUTH BASS	C	M	C	F	11	22.0	3.57	3110	1.43	141.3
77-005	SPOTTED BASS	C		C	F	2	4.0	0.65	210	0.10	52.5
77-009	BLUEGILL SUNFISH	I	P	C	S	9	18.0	2.92	460	0.21	25.5
77-011	LONGEAR SUNFISH	I	M	C	S	24	48.0	7.79	534	0.25	11.1
80-015	GREENSIDE DARTER	I	M	S	D	2	4.0	0.65	30	0.01	7.5
80-016	BANDED DARTER	I	I	S	D	1	2.0	0.32	4	0.00	2.0
85-001	FRESHWATER DRUM		P	M		8	16.0	2.60	13920	6.40	870.0

**No Species:** 28    **Nat. Species:** 27    **Hybrids:** 0    **Total Counted:** 308    **Total Rel. Wt. :** 217380

**IBI:** 40.0    **MIwb:** 10.7

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM03 River: 11-001 Little Miami River RM: 22.10 Date: 07/17/2012

Time Fished: 1626 Distance: 0.500 Drainge (sq mi): 1148.0 Depth: 0

Location: Lat: 39.25110 Long: -84.28470

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		3	6.0	1.55	2860	8.53	476.6
20-003	GIZZARD SHAD	O		M		41	82.0	21.24	10500	31.32	128.0
40-006	RIVER CARPSUCKER	O		M	C	5	10.0	2.59	8400	25.06	840.0
40-009	BLACK REDHORSE	I	I	S	R	2	4.0	1.04	1850	5.52	462.5
40-010	GOLDEN REDHORSE	I	M	S	R	5	10.0	2.59	3120	9.31	312.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	5	10.0	2.59	1150	3.43	115.0
43-020	EMERALD SHINER	I		M	N	58	116.0	30.05	126	0.38	1.0
43-032	SPOTFIN SHINER	I		M	N	1	2.0	0.52	4	0.01	2.0
43-035	MIMIC SHINER	I	I	M	N	3	6.0	1.55	2	0.01	0.3
43-043	BLUNTNOSE MINNOW	O	T	C	N	19	38.0	9.84	72	0.21	1.8
43-044	CENTRAL STONEROLLER	H		N	N	1	2.0	0.52	4	0.01	2.0
47-002	CHANNEL CATFISH			C	F	1	2.0	0.52	2400	7.16	1200.0
47-007	FLATHEAD CATFISH	P		C	F	2	4.0	1.04	200	0.60	50.0
77-004	SMALLMOUTH BASS	C	M	C	F	10	20.0	5.18	162	0.48	8.1
77-005	SPOTTED BASS	C		C	F	8	16.0	4.15	860	2.57	53.7
77-006	LARGEMOUTH BASS	C		C	F	2	4.0	1.04	180	0.54	45.0
77-009	BLUEGILL SUNFISH	I	P	C	S	11	22.0	5.70	300	0.89	13.6
77-011	LONGEAR SUNFISH	I	M	C	S	14	28.0	7.25	1260	3.76	45.0
80-011	LOGPERCH	I	M	S	D	2	4.0	1.04	70	0.21	17.5

**No Species:** 19    **Nat. Species:** 19    **Hybrids:** 0    **Total Counted:** 193    **Total Rel. Wt. :** 33520  
**IBI:** 36.0    **MIwb:** 8.9

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM03 River: 11-001 Little Miami River RM: 22.10 Date: 09/13/2012

Time Fished: 1728 Distance: 0.500 Drainge (sq mi): 1148.0 Depth: 0

Location: Lat: 39.25110 Long: -84.28470

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		76	152.0	18.10	13140	20.16	86.4
40-004	SMALLMOUTH BUFFALO	I		M	C	1	2.0	0.24	2200	3.37	1100.0
40-005	QUILLBACK CARPSUCKER	O		M	C	1	2.0	0.24	1000	1.53	500.0
40-006	RIVER CARPSUCKER	O		M	C	1	2.0	0.24	2000	3.07	1000.0
40-010	GOLDEN REDHORSE	I	M	S	R	39	78.0	9.29	22600	34.67	289.7
40-015	NORTHERN HOG SUCKER	I	M	S	R	11	22.0	2.62	4000	6.14	181.8
40-023	SMALLMOUTH REDHORSE	I	M	S	R	4	8.0	0.95	2240	3.44	280.0
43-001	COMMON CARP	O	T	M	G	1	2.0	0.24	5400	8.28	2700.0
43-020	EMERALD SHINER	I		M	N	178	356.0	42.38	342	0.52	0.9
43-035	MIMIC SHINER	I	I	M	N	30	60.0	7.14	26	0.04	0.4
43-043	BLUNTNOSE MINNOW	O	T	C	N	8	16.0	1.90	14	0.02	0.8
47-007	FLATHEAD CATFISH	P		C	F	2	4.0	0.48	8300	12.73	2075.0
70-001	BROOK SILVERSIDE	I	M	M		1	2.0	0.24	2	0.00	1.0
74-001	WHITE BASS	P		M	F	5	10.0	1.19	600	0.92	60.0
77-001	WHITE CRAPPIE	I		C	S	1	2.0	0.24	300	0.46	150.0
77-004	SMALLMOUTH BASS	C	M	C	F	8	16.0	1.90	1570	2.41	98.1
77-005	SPOTTED BASS	C		C	F	5	10.0	1.19	140	0.21	14.0
77-009	BLUEGILL SUNFISH	I	P	C	S	13	26.0	3.10	180	0.28	6.9
77-011	LONGEAR SUNFISH	I	M	C	S	33	66.0	7.86	336	0.52	5.0
85-001	FRESHWATER DRUM		P	M		2	4.0	0.48	800	1.23	200.0

**No Species:** 20      **Nat. Species:** 19      **Hybrids:** 0      **Total Counted:** 420      **Total Rel. Wt. :** 65190

**IBI:** 36.0      **MIwb:** 9.4

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM02 River: 11-001 Little Miami River RM: 23.70 Date: 07/17/2012  
 Time Fished: 1763 Distance: 0.500 Drainge (sq mi): 1150.0 Depth: 0  
 Location: Dst. E. Loveland Ave. Lat: 39.26803 Long: -84.26095

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	2.0	0.60	1000	1.42	500.0
20-003	GIZZARD SHAD	O		M		25	50.0	14.88	10180	14.42	203.6
40-004	SMALLMOUTH BUFFALO	I		M	C	4	8.0	2.38	12100	17.14	1512.5
40-005	QUILLBACK CARPSUCKER	O		M	C	1	2.0	0.60	1000	1.42	500.0
40-006	RIVER CARPSUCKER	O		M	C	2	4.0	1.19	3600	5.10	900.0
40-008	SILVER REDHORSE	I	M	S	R	2	4.0	1.19	8400	11.90	2100.0
40-010	GOLDEN REDHORSE	I	M	S	R	18	36.0	10.71	12380	17.53	343.8
40-015	NORTHERN HOG SUCKER	I	M	S	R	2	4.0	1.19	500	0.71	125.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	6	12.0	3.57	4000	5.67	333.3
43-020	EMERALD SHINER	I		M	N	21	42.0	12.50	48	0.07	1.1
43-032	SPOTFIN SHINER	I		M	N	4	8.0	2.38	20	0.03	2.5
43-034	SAND SHINER	I	M	M	N	2	4.0	1.19	6	0.01	1.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	15	30.0	8.93	28	0.04	0.9
47-002	CHANNEL CATFISH			C	F	3	6.0	1.79	7140	10.11	1190.0
47-008	STONECAT MADTOM	I	I	C		1	2.0	0.60	10	0.01	5.0
77-004	SMALLMOUTH BASS	C	M	C	F	7	14.0	4.17	3770	5.34	269.2
77-005	SPOTTED BASS	C		C	F	7	14.0	4.17	340	0.48	24.2
77-008	GREEN SUNFISH	I	T	C	S	6	12.0	3.57	240	0.34	20.0
77-009	BLUEGILL SUNFISH	I	P	C	S	19	38.0	11.31	470	0.67	12.3
77-011	LONGEAR SUNFISH	I	M	C	S	5	10.0	2.98	160	0.23	16.0
80-001	SAUGER	P		S	F	1	2.0	0.60	1100	1.56	550.0
80-007	SLENDERHEAD DARTER	I	R	S	D	4	8.0	2.38	8	0.01	1.0
80-011	LOGPERCH	I	M	S	D	3	6.0	1.79	120	0.17	20.0
80-015	GREENSIDE DARTER	I	M	S	D	1	2.0	0.60	4	0.01	2.0
85-001	FRESHWATER DRUM		P	M		8	16.0	4.76	3980	5.64	248.7

**No Species:** 25    **Nat. Species:** 25    **Hybrids:** 0    **Total Counted:** 168    **Total Rel. Wt. :** 70604  
**IBI:** 44.0    **MIwb:** 10.1



# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM02 River: 11-001 Little Miami River RM: 23.70 Date: 09/13/2012

Time Fished: 1829 Distance: 0.500 Drainge (sq mi): 1150.0 Depth: 0

Location: Dst. E. Loveland Ave. Lat: 39.26803 Long: -84.26095

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		124	248.0	25.31	9910	10.69	39.9
40-004	SMALLMOUTH BUFFALO	I		M	C	2	4.0	0.41	5800	6.25	1450.0
40-006	RIVER CARPSUCKER	O		M	C	2	4.0	0.41	4000	4.31	1000.0
40-009	BLACK REDHORSE	I	I	S	R	1	2.0	0.20	500	0.54	250.0
40-010	GOLDEN REDHORSE	I	M	S	R	27	54.0	5.51	21080	22.73	390.3
40-015	NORTHERN HOG SUCKER	I	M	S	R	4	8.0	0.82	2100	2.26	262.5
40-023	SMALLMOUTH REDHORSE	I	M	S	R	16	32.0	3.27	11300	12.18	353.1
43-020	EMERALD SHINER	I		M	N	201	402.0	41.02	292	0.31	0.7
43-032	SPOTFIN SHINER	I		M	N	5	10.0	1.02	12	0.01	1.2
43-035	MIMIC SHINER	I	I	M	N	2	4.0	0.41	4	0.00	1.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	19	38.0	3.88	70	0.08	1.8
47-002	CHANNEL CATFISH			C	F	2	4.0	0.41	6208	6.69	1552.0
47-007	FLATHEAD CATFISH	P		C	F	6	12.0	1.22	11500	12.40	958.3
77-003	ROCK BASS	C		C	S	1	2.0	0.20	60	0.06	30.0
77-004	SMALLMOUTH BASS	C	M	C	F	15	30.0	3.06	2590	2.79	86.3
77-005	SPOTTED BASS	C		C	F	10	20.0	2.04	3940	4.25	197.0
77-008	GREEN SUNFISH	I	T	C	S	4	8.0	0.82	200	0.22	25.0
77-009	BLUEGILL SUNFISH	I	P	C	S	7	14.0	1.43	182	0.20	13.0
77-011	LONGEAR SUNFISH	I	M	C	S	33	66.0	6.73	522	0.56	7.9
80-001	SAUGER	P		S	F	3	6.0	0.61	2020	2.18	336.6
80-011	LOGPERCH	I	M	S	D	1	2.0	0.20	54	0.06	27.0
85-001	FRESHWATER DRUM		P	M		5	10.0	1.02	10400	11.21	1040.0

**No Species:** 22    **Nat. Species:** 22    **Hybrids:** 0    **Total Counted:** 490    **Total Rel. Wt. :** 92744

**IBI:** 42.0    **MIwb:** 10.0

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM01 River: 11-001 Little Miami River RM: 27.80 Date: 07/23/2012

Time Fished: 1411 Distance: 0.300 Drainge (sq mi): 1070.0 Depth: 0

Location: Dst. Old 3C highway Lat: 39.31636 Long: -84.25214

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		2	6.7	0.89	2999	1.84	450.0
20-003	GIZZARD SHAD	O		M		27	90.0	12.05	16165	9.94	179.6
40-004	SMALLMOUTH BUFFALO	I		M	C	5	16.7	2.23	26330	16.19	1580.0
40-006	RIVER CARPSUCKER	O		M	C	1	3.3	0.45	3666	2.25	1100.0
40-010	GOLDEN REDHORSE	I	M	S	R	28	93.3	12.50	42962	26.42	460.3
40-015	NORTHERN HOG SUCKER	I	M	S	R	9	30.0	4.02	4476	2.75	149.2
40-023	SMALLMOUTH REDHORSE	I	M	S	R	17	56.7	7.59	24030	14.78	424.1
43-020	EMERALD SHINER	I		M	N	54	180.0	24.11	106	0.07	0.5
43-031	STEELCOLOR SHINER	I	P	M	N	6	20.0	2.68	216	0.13	10.8
43-032	SPOTFIN SHINER	I		M	N	1	3.3	0.45	10	0.01	3.0
43-034	SAND SHINER	I	M	M	N	11	36.7	4.91	43	0.03	1.1
43-035	MIMIC SHINER	I	I	M	N	4	13.3	1.79	16	0.01	1.2
43-043	BLUNTNOSE MINNOW	O	T	C	N	9	30.0	4.02	73	0.05	2.4
47-002	CHANNEL CATFISH			C	F	3	10.0	1.34	12532	7.71	1253.3
74-001	WHITE BASS	P		M	F	1	3.3	0.45	1166	0.72	350.0
77-004	SMALLMOUTH BASS	C	M	C	F	16	53.3	7.14	6799	4.18	127.5
77-008	GREEN SUNFISH	I	T	C	S	1	3.3	0.45	33	0.02	10.0
77-009	BLUEGILL SUNFISH	I	P	C	S	6	20.0	2.68	433	0.27	21.6
77-011	LONGEAR SUNFISH	I	M	C	S	10	33.3	4.46	766	0.47	23.0
80-001	SAUGER	P		S	F	1	3.3	0.45	1333	0.82	400.0
80-011	LOGPERCH	I	M	S	D	2	6.7	0.89	199	0.12	30.0
80-026	SAUGER X WALLEYE	P			E	1	3.3	0.45	999	0.61	300.0
85-001	FRESHWATER DRUM		P	M		9	30.0	4.02	17264	10.62	575.5

**No Species:** 22    **Nat. Species:** 22    **Hybrids:** 1    **Total Counted:** 224    **Total Rel. Wt. :** 162627

**IBI:** 44.0    **MIwb:** 10.5

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM01 River: 11-001 Little Miami River RM: 27.80 Date: 09/12/2012

Time Fished: 1000 Distance: 0.300 Drainge (sq mi): 1070.0 Depth: 0

Location: Dst. Old 3C highway Lat: 39.31636 Long: -84.25214

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		2	6.7	0.79	5666	1.76	850.0
20-003	GIZZARD SHAD	O		M		49	163.3	19.29	17298	5.39	105.9
40-004	SMALLMOUTH BUFFALO	I		M	C	4	13.3	1.57	18998	5.92	1425.0
40-006	RIVER CARPSUCKER	O		M	C	4	13.3	1.57	15665	4.88	1175.0
40-008	SILVER REDHORSE	I	M	S	R	4	13.3	1.57	23997	7.47	1800.0
40-010	GOLDEN REDHORSE	I	M	S	R	34	113.3	13.39	63193	19.68	557.6
40-015	NORTHERN HOG SUCKER	I	M	S	R	10	33.3	3.94	7065	2.20	212.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	24	80.0	9.45	30996	9.65	387.5
43-020	EMERALD SHINER	I		M	N	52	173.3	20.47	186	0.06	1.0
43-031	STEELCOLOR SHINER	I	P	M	N	1	3.3	0.39	36	0.01	11.0
43-032	SPOTFIN SHINER	I		M	N	2	6.7	0.79	23	0.01	3.5
43-035	MIMIC SHINER	I	I	M	N	4	13.3	1.57	10	0.00	0.7
43-041	BULLHEAD MINNOW	O		C	N	1	3.3	0.39	10	0.00	3.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	2	6.7	0.79	10	0.00	1.5
43-044	CENTRAL STONEROLLER	H		N	N	9	30.0	3.54	166	0.05	5.5
47-002	CHANNEL CATFISH			C	F	3	10.0	1.18	17331	5.40	1733.3
47-007	FLATHEAD CATFISH	P		C	F	1	3.3	0.39	16	0.01	5.0
74-001	WHITE BASS	P		M	F	3	10.0	1.18	533	0.17	53.3
77-004	SMALLMOUTH BASS	C	M	C	F	13	43.3	5.12	6399	1.99	147.6
77-011	LONGEAR SUNFISH	I	M	C	S	3	10.0	1.18	233	0.07	23.3
80-011	LOGPERCH	I	M	S	D	1	3.3	0.39	33	0.01	10.0
85-001	FRESHWATER DRUM		P	M		28	93.3	11.02	113288	35.27	1213.9

**No Species:** 22    **Nat. Species:** 22    **Hybrids:** 0    **Total Counted:** 254    **Total Rel. Wt. :** 321161

**IBI:** 40.0    **MIwb:** 10.6

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM98 River: 11-002 Clough Creek RM: 0.60 Date: 08/30/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 7.8 Depth: 0  
 Location: at Elstun Rd and Beechmont Ave. Lat: 39.10581 Long: -84.39481

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	171	342.0	45.00	580	39.35	1.7
43-013	CREEK CHUB	G	T	N	N	26	52.0	6.84	200	13.57	3.8
43-039	SILVERJAW MINNOW	I		M	N	21	42.0	5.53	22	1.49	0.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	76	152.0	20.00	200	13.57	1.3
43-044	CENTRAL STONEROLLER	H		N	N	47	94.0	12.37	380	25.78	4.0
47-004	YELLOW BULLHEAD	I	T	C		1	2.0	0.26	12	0.81	6.0
80-022	RAINBOW DARTER	I	M	S	D	38	76.0	10.00	80	5.43	1.0

**No Species:** 7      **Nat. Species:** 7      **Hybrids:** 0      **Total Counted:** 380      **Total Rel. Wt. :** 1474

**IBI:** 26.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM97    River: 11-002    Clough Creek    RM: 1.20    Date: 08/30/2012

Time Fished: 1781    Distance: 0.150    Drainage (sq mi): 7.5    Depth: 0

Location: behind maple farm off Clough Pike    Lat: 39.10955    Long: -84.38788

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	17	34.0	1.80	1620	15.31	47.6
43-001	COMMON CARP	O	T	M	G	2	4.0	0.21	1450	13.71	362.5
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	100	200.0	10.56	540	5.10	2.7
43-013	CREEK CHUB	G	T	N	N	103	206.0	10.88	1580	14.93	7.6
43-025	STRIPED SHINER	I		S	N	1	2.0	0.11	60	0.57	30.0
43-039	SILVERJAW MINNOW	I		M	N	71	142.0	7.50	240	2.27	1.6
43-043	BLUNTNOSE MINNOW	O	T	C	N	426	852.0	44.98	1960	18.53	2.3
43-044	CENTRAL STONEROLLER	H		N	N	129	258.0	13.62	1880	17.77	7.2
47-004	YELLOW BULLHEAD	I	T	C		34	68.0	3.59	500	4.73	7.3
77-008	GREEN SUNFISH	I	T	C	S	15	30.0	1.58	570	5.39	19.0
80-022	RAINBOW DARTER	I	M	S	D	49	98.0	5.17	180	1.70	1.8

**No Species:** 11    **Nat. Species:** 10    **Hybrids:** 0    **Total Counted:** 947    **Total Rel. Wt. :** 10580

**IBI:** 26.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM96 River: 11-002 Clough Creek RM: 3.00 Date: 08/29/2012

Time Fished: 0 Distance: 0.150 Drainge (sq mi): 5.4 Depth: 0

Location: Ust. Berkshire Rd. bridge Lat: 39.09399 Long: -84.36633

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	1	2.0	0.13	8	0.17	4.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	269	538.0	35.77	970	20.07	1.8
43-013	CREEK CHUB	G	T	N	N	200	400.0	26.60	2280	47.19	5.7
43-039	SILVERJAW MINNOW	I		M	N	80	160.0	10.64	320	6.62	2.0
43-042	FATHEAD MINNOW	O	T	C	N	1	2.0	0.13	4	0.08	2.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	78	156.0	10.37	420	8.69	2.6
43-044	CENTRAL STONEROLLER	H		N	N	114	228.0	15.16	730	15.11	3.2
47-004	YELLOW BULLHEAD	I	T	C		1	2.0	0.13	60	1.24	30.0
80-022	RAINBOW DARTER	I	M	S	D	8	16.0	1.06	40	0.83	2.5

**No Species:** 9      **Nat. Species:** 9      **Hybrids:** 0      **Total Counted:** 752      **Total Rel. Wt. :** 4832

**IBI:** 36.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM95    River: 11-002    Clough Creek    RM: 3.20    Date: 08/29/2012

Time Fished: 0    Distance: 0.150    Drainge (sq mi): 2.1    Depth: 0

Location:    Lat: 39.09360    Long: -84.36500

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	93	186.0	39.41	560	39.66	3.0
43-013	CREEK CHUB	G	T	N	N	93	186.0	39.41	740	52.41	3.9
43-043	BLUNTNNOSE MINNOW	O	T	C	N	1	2.0	0.42	6	0.42	3.0
43-044	CENTRAL STONEROLLER	H		N	N	47	94.0	19.92	100	7.08	1.0
80-022	RAINBOW DARTER	I	M	S	D	2	4.0	0.85	6	0.42	1.5
<b>No Species: 5</b>		<b>Nat. Species: 5</b>		<b>Hybrids: 0</b>		<b>Total Counted: 236</b>		<b>Total Rel. Wt. :</b>		<b>1412</b>	
<b>IBI: 30.0</b>		<b>MIwb: N/A</b>									

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM99 River: 11-002 Clough Creek RM: 4.60 Date: 08/30/2012

Time Fished: 0 Distance: 0.150 Drainge (sq mi): 0.9 Depth: 0

Location: at Wolfangle Rd. Lat: 39.08435 Long: -84.08518

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	34	68.0	36.17	100	18.52	1.4
43-013	CREEK CHUB	G	T	N	N	60	120.0	63.83	440	81.48	3.6

**No Species:** 2      **Nat. Species:** 2      **Hybrids:** 0      **Total Counted:** 94      **Total Rel. Wt. :** 540

**IBI:** 20.0      **MIwb:** N/A



# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM94 River: 11-003 McCullough Run RM: 1.30 Date: 08/28/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 1.7 Depth: 0  
 Location: at US32 across from sod farm and soccer field Lat: 39.12098 Long: -84.38039

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	2	4.0	0.99	20	0.64	5.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	6	12.0	2.97	16	0.51	1.3
43-013	CREEK CHUB	G	T	N	N	112	224.0	55.45	2540	81.20	11.3
43-020	EMERALD SHINER	I		M	N	4	8.0	1.98	6	0.19	0.7
43-039	SILVERJAW MINNOW	I		M	N	1	2.0	0.50	4	0.13	2.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	35	70.0	17.33	80	2.56	1.1
43-044	CENTRAL STONEROLLER	H		N	N	17	34.0	8.42	160	5.12	4.7
47-004	YELLOW BULLHEAD	I	T	C		2	4.0	0.99	80	2.56	20.0
77-008	GREEN SUNFISH	I	T	C	S	11	22.0	5.45	140	4.48	6.3
77-009	BLUEGILL SUNFISH	I	P	C	S	2	4.0	0.99	22	0.70	5.5
80-022	RAINBOW DARTER	I	M	S	D	7	14.0	3.47	20	0.64	1.4
85-001	FRESHWATER DRUM		P	M		3	6.0	1.49	40	1.28	6.6

**No Species:** 12    **Nat. Species:** 12    **Hybrids:** 0    **Total Counted:** 202    **Total Rel. Wt. :** 3128  
**IBI:** 34.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM79    River: 11-004    Duck Creek    RM: 0.90    Date: 08/15/2012

Time Fished: 0    Distance: 0.150    Drainage (sq mi): 14.7    Depth: 0

Location:    Lat: 39.12220    Long: -84.41110

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 1    **Nat. Species:** 1    **Hybrids:** 0    **Total Counted:** 0    **Total Rel. Wt. :** 0

**IBI:** -9.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM77 River: 11-004 Duck Creek RM: 1.80 Date: 08/15/2012

Time Fished: 0 Distance: 0.150 Drainge (sq mi): 14.3 Depth: 0

Location: at Power St. Lat: 39.13257 Long: -84.40484

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	130	260.0	18.73	180	8.94	0.6
43-013	CREEK CHUB	G	T	N	N	178	356.0	25.65	960	47.67	2.7
43-020	EMERALD SHINER	I		M	N	244	488.0	35.16	340	16.88	0.7
43-032	SPOTFIN SHINER	I		M	N	4	8.0	0.58	6	0.30	0.7
43-039	SILVERJAW MINNOW	I		M	N	1	2.0	0.14	6	0.30	3.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	51	102.0	7.35	120	5.96	1.1
43-044	CENTRAL STONEROLLER	H		N	N	48	96.0	6.92	160	7.94	1.6
47-004	YELLOW BULLHEAD	I	T	C		2	4.0	0.29	10	0.50	2.5
57-001	WESTERN MOSQUITOFISH	I		N	E	5	10.0	0.72	12	0.60	1.2
77-008	GREEN SUNFISH	I	T	C	S	31	62.0	4.47	220	10.92	3.5

**No Species:** 10    **Nat. Species:** 9    **Hybrids:** 0    **Total Counted:** 694    **Total Rel. Wt. :** 2014

**IBI:** 32.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: River: 11-004 Duck Creek RM: 2.70 Date: 08/29/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 0.0 Depth: 0  
 Location: Lat: 0.00000 Long: 0.00000

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 0      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 0      **Total Rel. Wt. :** 0  
**IBI:** 0.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM76 River: 11-004 Duck Creek RM: 2.90 Date: 08/15/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 11.8 Depth: 0  
 Location: adj. Red Bank Rd. Lat: 39.14457 Long: -84.40589

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	31	62.0	24.22	200	42.74	3.2
43-020	EMERALD SHINER	I		M	N	90	180.0	70.31	180	38.46	1.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	2	4.0	1.56	8	1.71	2.0
77-008	GREEN SUNFISH	I	T	C	S	5	10.0	3.91	80	17.09	8.0
<b>No Species:</b> 4		<b>Nat. Species:</b> 4		<b>Hybrids:</b> 0		<b>Total Counted:</b> 128		<b>Total Rel. Wt. :</b>		468	
<b>IBI:</b> 32.0		<b>MIwb:</b> N/A									

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM75 River: 11-004 Duck Creek RM: 3.30 Date: 08/07/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 11.4 Depth: 0  
 Location: at Erie Ave. Lat: 39.14945 Long: -84.40827

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-999	NO FISH					0	0.0	***.**	0	0.00	*****

**No Species:** 0      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 0      **Total Rel. Wt. :** 0  
**IBI:** 12.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM73 River: 11-004 Duck Creek RM: 4.40 Date: 08/07/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 5.8 Depth: 0  
 Location: Ust. Madison Rd. Lat: 39.16018 Long: -84.41657

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
77-008	GREEN SUNFISH	I	T	C	S	1	2.0	100.00	4	100.00	2.0

**No Species:** 1      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 1      **Total Rel. Wt. :** 4

**IBI:** 12.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM72    River: 11-004    Duck Creek    RM: 4.60    Date: 08/07/2012

Time Fished: 0    Distance: 0.150    Drainage (sq mi): 5.1    Depth: 0

Location: Dst. Duck Creek Rd.    Lat: 39.16415    Long: -84.41682

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-013	CREEK CHUB	G	T	N	N	3	6.0	2.00	20	2.79	3.3
43-043	BLUNTNOSE MINNOW	O	T	C	N	1	2.0	0.67	6	0.84	3.0
43-044	CENTRAL STONEROLLER	H		N	N	4	8.0	2.67	40	5.59	5.0
77-008	GREEN SUNFISH	I	T	C	S	142	284.0	94.67	650	90.78	2.2
<b>No Species:</b> 4		<b>Nat. Species:</b> 4		<b>Hybrids:</b> 0		<b>Total Counted:</b> 150		<b>Total Rel. Wt. :</b>		716	
<b>IBI:</b> 26.0		<b>MIwb:</b> N/A									



# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM78 River: 11-004 Duck Creek RM: 5.20 Date: 08/15/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 3.5 Depth: 0  
 Location: adj. 562 and I-71 Lat: 39.16550 Long: -84.42493

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-999	NO FISH					1	2.0	100.00	2	100.00	1.0
<b>No Species: 0</b>		<b>Nat. Species: 1</b>		<b>Hybrids: 0</b>		<b>Total Counted: 1</b>		<b>Total Rel. Wt. : 2</b>			
<b>IBI:</b>	12.0	<b>MIwb:</b>		N/A							

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM71 River: 11-004 Duck Creek RM: 6.00 Date: 08/30/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 2.2 Depth: 0  
 Location: at Duck Creek Rd. (upstream) Lat: 39.16171 Long: -84.43745

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-999	NO FISH					0	0.0	***.**	0	0.00	*****

**No Species:** 0      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 0      **Total Rel. Wt. :** 0  
**IBI:** 12.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM68 River: 11-005 Dry Run RM: 0.60 Date: 08/02/2012

Time Fished: 0 Distance: 0.000 Drainge (sq mi): 5.4 Depth: 0

Location: DRY RUN NR NEWTOWN - NEWTOWN RD. Lat: 39.13556 Long: 84.35389

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 1      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 0      **Total Rel. Wt. :** 0

**IBI:** -9.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM67 River: 11-005 Dry Run RM: 2.50 Date: 08/28/2012  
 Time Fished: 2477 Distance: 0.150 Drainge (sq mi): 4.7 Depth: 0  
 Location: Dst. Batavia Pike Lat: 39.12376 Long: -84.32921

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	17	34.0	1.32	1980	17.79	58.2
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	279	558.0	21.66	1170	10.51	2.1
43-013	CREEK CHUB	G	T	N	N	180	360.0	13.98	2410	21.65	6.6
43-020	EMERALD SHINER	I		M	N	1	2.0	0.08	4	0.04	2.0
43-025	STRIPED SHINER	I		S	N	1	2.0	0.08	16	0.14	8.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	104	208.0	8.07	310	2.79	1.4
43-044	CENTRAL STONEROLLER	H		N	N	628	1256.0	48.76	4520	40.61	3.6
77-008	GREEN SUNFISH	I	T	C	S	10	20.0	0.78	600	5.39	30.0
80-016	BANDED DARTER	I	I	S	D	41	82.0	3.18	64	0.58	0.7
80-022	RAINBOW DARTER	I	M	S	D	27	54.0	2.10	56	0.50	1.0

**No Species:** 10    **Nat. Species:** 10    **Hybrids:** 0    **Total Counted:** 1288    **Total Rel. Wt. :** 11130  
**IBI:** 44.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM66 River: 11-005 Dry Run RM: 4.10 Date: 08/29/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 3.2 Depth: 0  
 Location: Ust. 8 Mile Rd. Lat: 39.10589 Long: -84.31874

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	41	82.0	28.28	220	13.25	2.6
43-013	CREEK CHUB	G	T	N	N	41	82.0	28.28	740	44.58	9.0
43-044	CENTRAL STONEROLLER	H		N	N	62	124.0	42.76	660	39.76	5.3
77-006	LARGEMOUTH BASS	C		C	F	1	2.0	0.69	40	2.41	20.0

**No Species:** 4      **Nat. Species:** 4      **Hybrids:** 0      **Total Counted:** 145      **Total Rel. Wt. :** 1660  
**IBI:** 30.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM70 River: 11-005 Dry Run RM: 5.60 Date: 08/29/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 0.8 Depth: 0  
 Location: Ust. Clough Pike Lat: 39.08808 Long: -84.30908

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-013	CREEK CHUB	G	T	N	N	145	290.0	100.00	1940	100.00	6.6

**No Species:** 1      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 145      **Total Rel. Wt. :** 1940

**IBI:** 20.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM52 River: 11-007 Sycamore Creek RM: 0.20 Date: 07/30/2012  
 Time Fished: 1728 Distance: 0.200 Drainge (sq mi): 24.0 Depth: 0  
 Location: SYCAMORE CREEK DST SYCAMORE CREEK WWTP Lat: 39.22583 Long: 84.32250

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-009	BLACK REDHORSE	I	I	S	R	1	1.5	0.42	675	6.63	450.0
40-010	GOLDEN REDHORSE	I	M	S	R	3	4.5	1.26	2025	19.90	450.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	6	9.0	2.51	2400	23.58	266.6
43-020	EMERALD SHINER	I		M	N	95	142.5	39.75	94	0.93	0.6
43-031	STEELCOLOR SHINER	I	P	M	N	2	3.0	0.84	12	0.12	4.0
43-032	SPOTFIN SHINER	I		M	N	4	6.0	1.67	7	0.07	1.2
43-034	SAND SHINER	I	M	M	N	16	24.0	6.69	36	0.35	1.5
43-035	MIMIC SHINER	I	I	M	N	11	16.5	4.60	25	0.25	1.5
43-044	CENTRAL STONEROLLER	H		N	N	12	18.0	5.02	112	1.11	6.2
47-004	YELLOW BULLHEAD	I	T	C		1	1.5	0.42	1	0.01	1.0
77-003	ROCK BASS	C		C	S	1	1.5	0.42	75	0.74	50.0
77-004	SMALLMOUTH BASS	C	M	C	F	8	12.0	3.35	2632	25.87	219.3
77-005	SPOTTED BASS	C		C	F	7	10.5	2.93	757	7.44	72.1
77-008	GREEN SUNFISH	I	T	C	S	12	18.0	5.02	376	3.70	20.9
77-009	BLUEGILL SUNFISH	I	P	C	S	20	30.0	8.37	607	5.97	20.2
77-011	LONGEAR SUNFISH	I	M	C	S	4	6.0	1.67	151	1.49	25.2
80-015	GREENSIDE DARTER	I	M	S	D	1	1.5	0.42	75	0.74	50.0
80-022	RAINBOW DARTER	I	M	S	D	33	49.5	13.81	105	1.03	2.1
80-024	FANTAIL DARTER	I		C	D	2	3.0	0.84	7	0.07	2.5

**No Species:** 19    **Nat. Species:** 19    **Hybrids:** 0    **Total Counted:** 239    **Total Rel. Wt. :** 10177  
**IBI:** 52.0    **MIwb:** 8.2

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM52 River: 11-007 Sycamore Creek RM: 0.20 Date: 09/25/2012

Time Fished: 0 Distance: 0.200 Drainge (sq mi): 24.0 Depth: 0

Location: SYCAMORE CREEK DST SYCAMORE CREEK WWTP Lat: 39.22583 Long: 84.32250

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-010	GOLDEN REDHORSE	I	M	S	R	1	1.5	0.46	1200	15.96	800.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	4	6.0	1.83	1245	16.55	207.5
43-020	EMERALD SHINER	I		M	N	5	7.5	2.28	12	0.16	1.6
43-022	ROSYFACE SHINER	I	I	S	N	1	1.5	0.46	3	0.04	2.0
43-025	STRIPED SHINER	I		S	N	1	1.5	0.46	12	0.16	8.0
43-031	STEELCOLOR SHINER	I	P	M	N	13	19.5	5.94	91	1.22	4.6
43-032	SPOTFIN SHINER	I		M	N	4	6.0	1.83	25	0.34	4.2
43-043	BLUNTNOSE MINNOW	O	T	C	N	1	1.5	0.46	3	0.04	2.0
43-044	CENTRAL STONEROLLER	H		N	N	17	25.5	7.76	240	3.19	9.4
47-004	YELLOW BULLHEAD	I	T	C		1	1.5	0.46	7	0.10	5.0
77-003	ROCK BASS	C		C	S	2	3.0	0.91	15	0.20	5.0
77-004	SMALLMOUTH BASS	C	M	C	F	23	34.5	10.50	3705	49.26	107.3
77-008	GREEN SUNFISH	I	T	C	S	8	12.0	3.65	105	1.40	8.7
77-009	BLUEGILL SUNFISH	I	P	C	S	7	10.5	3.20	15	0.20	1.4
77-011	LONGEAR SUNFISH	I	M	C	S	97	145.5	44.29	712	9.47	4.9
80-015	GREENSIDE DARTER	I	M	S	D	10	15.0	4.57	60	0.80	4.0
80-016	BANDED DARTER	I	I	S	D	2	3.0	0.91	3	0.04	1.0
80-022	RAINBOW DARTER	I	M	S	D	17	25.5	7.76	60	0.80	2.3
80-024	FANTAIL DARTER	I		C	D	5	7.5	2.28	6	0.08	0.8

**No Species:** 19    **Nat. Species:** 19    **Hybrids:** 0    **Total Counted:** 219    **Total Rel. Wt. :** 7521  
**IBI:** 50.0    **MIwb:** 7.5



# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM51 River: 11-007 Sycamore Creek RM: 0.50 Date: 07/30/2012

Time Fished: 0 Distance: 0.200 Drainge (sq mi): 24.0 Depth: 0

Location: Lat: 39.22330 Long: -84.32640

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-015	NORTHERN HOG SUCKER	I	M	S	R	4	6.0	2.03	465	13.61	77.5
43-020	EMERALD SHINER	I		M	N	24	36.0	12.18	19	0.57	0.5
43-025	STRIPED SHINER	I		S	N	1	1.5	0.51	1	0.04	1.0
43-032	SPOTFIN SHINER	I		M	N	4	6.0	2.03	13	0.40	2.2
43-034	SAND SHINER	I	M	M	N	21	31.5	10.66	42	1.23	1.3
43-035	MIMIC SHINER	I	I	M	N	6	9.0	3.05	12	0.35	1.3
43-043	BLUNTNOSE MINNOW	O	T	C	N	63	94.5	31.98	45	1.32	0.4
47-004	YELLOW BULLHEAD	I	T	C		6	9.0	3.05	1215	35.56	135.0
47-008	STONECAT MADTOM	I	I	C		1	1.5	0.51	4	0.13	3.0
70-001	BROOK SILVERSIDE	I	M	M		1	1.5	0.51	1	0.04	1.0
77-003	ROCK BASS	C		C	S	1	1.5	0.51	30	0.88	20.0
77-004	SMALLMOUTH BASS	C	M	C	F	4	6.0	2.03	622	18.22	103.7
77-008	GREEN SUNFISH	I	T	C	S	17	25.5	8.63	465	13.61	18.2
77-009	BLUEGILL SUNFISH	I	P	C	S	17	25.5	8.63	166	4.87	6.5
77-011	LONGEAR SUNFISH	I	M	C	S	18	27.0	9.14	273	7.99	10.1
77-021	GREEN SF X LONGEAR SF					1	1.5	0.51	22	0.66	15.0
80-015	GREENSIDE DARTER	I	M	S	D	1	1.5	0.51	6	0.18	4.0
80-022	RAINBOW DARTER	I	M	S	D	6	9.0	3.05	10	0.31	1.1
80-024	FANTAIL DARTER	I		C	D	1	1.5	0.51	1	0.04	1.0

**No Species:** 18    **Nat. Species:** 18    **Hybrids:** 1    **Total Counted:** 197    **Total Rel. Wt. :** 3417

**IBI:** 38.0    **MIwb:** 6.9

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM51 River: 11-007 Sycamore Creek RM: 0.50 Date: 09/25/2012

Time Fished: 0 Distance: 0.200 Drainge (sq mi): 24.0 Depth: 0

Location: Lat: 39.22330 Long: -84.32640

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-015	NORTHERN HOG SUCKER	I	M	S	R	3	4.5	1.35	465	9.24	103.3
40-016	WHITE SUCKER	O	T	S	W	1	1.5	0.45	255	5.07	170.0
43-025	STRIPED SHINER	I		S	N	1	1.5	0.45	4	0.09	3.0
43-031	STEELCOLOR SHINER	I	P	M	N	9	13.5	4.05	16	0.33	1.2
43-032	SPOTFIN SHINER	I		M	N	26	39.0	11.71	42	0.83	1.0
43-034	SAND SHINER	I	M	M	N	2	3.0	0.90	3	0.06	1.0
43-035	MIMIC SHINER	I	I	M	N	6	9.0	2.70	13	0.27	1.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	13	19.5	5.86	55	1.10	2.8
43-044	CENTRAL STONEROLLER	H		N	N	5	7.5	2.25	90	1.79	12.0
47-004	YELLOW BULLHEAD	I	T	C		9	13.5	4.05	1012	20.12	75.0
47-008	STONECAT MADTOM	I	I	C		1	1.5	0.45	60	1.19	40.0
77-003	ROCK BASS	C		C	S	3	4.5	1.35	240	4.77	53.3
77-004	SMALLMOUTH BASS	C	M	C	F	19	28.5	8.56	1320	26.23	46.3
77-008	GREEN SUNFISH	I	T	C	S	24	36.0	10.81	345	6.86	9.5
77-009	BLUEGILL SUNFISH	I	P	C	S	16	24.0	7.21	300	5.96	12.5
77-011	LONGEAR SUNFISH	I	M	C	S	77	115.5	34.68	795	15.80	6.8
80-015	GREENSIDE DARTER	I	M	S	D	1	1.5	0.45	3	0.06	2.0
80-022	RAINBOW DARTER	I	M	S	D	5	7.5	2.25	10	0.21	1.4
80-024	FANTAIL DARTER	I		C	D	1	1.5	0.45	1	0.03	1.0

**No Species:** 19    **Nat. Species:** 19    **Hybrids:** 0    **Total Counted:** 222    **Total Rel. Wt. :** 5032  
**IBI:** 46.0    **MIwb:** 7.7

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM50 River: 11-007 Sycamore Creek RM: 0.70 Date: 08/06/2012

Time Fished: 2143 Distance: 0.150 Drainge (sq mi): 15.1 Depth: 0

Location: Lat: 39.22220 Long: -84.32920

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-015	NORTHERN HOG SUCKER	I	M	S	R	2	4.0	0.61	320	4.09	80.0
40-016	WHITE SUCKER	O	T	S	W	23	46.0	7.01	3420	43.75	74.3
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	8	16.0	2.44	40	0.51	2.5
43-013	CREEK CHUB	G	T	N	N	53	106.0	16.16	1380	17.65	13.0
43-025	STRIPED SHINER	I		S	N	3	6.0	0.91	140	1.79	23.3
43-043	BLUNTNOSE MINNOW	O	T	C	N	112	224.0	34.15	380	4.86	1.7
43-044	CENTRAL STONEROLLER	H		N	N	120	240.0	36.59	1920	24.56	8.0
77-003	ROCK BASS	C		C	S	1	2.0	0.30	2	0.03	1.0
77-006	LARGEMOUTH BASS	C		C	F	1	2.0	0.30	200	2.56	100.0
77-011	LONGEAR SUNFISH	I	M	C	S	1	2.0	0.30	6	0.08	3.0
80-024	FANTAIL DARTER	I		C	D	4	8.0	1.22	10	0.13	1.2

**No Species:** 11    **Nat. Species:** 11    **Hybrids:** 0    **Total Counted:** 328    **Total Rel. Wt. :** 7818

**IBI:** 28.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM49    River: 11-007    Sycamore Creek    RM: 1.60    Date: 08/22/2012  
 Time Fished: 1324    Distance: 0.150    Drainge (sq mi): 6.6    Depth: 0  
 Location: adj. Loveland Maderia Rd @ pull-off by trib    Lat: 39.21156    Long: -84.33441

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	11	22.0	3.18	2600	40.24	118.1
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	112	224.0	32.37	590	9.13	2.6
43-013	CREEK CHUB	G	T	N	N	118	236.0	34.10	2640	40.85	11.1
43-043	BLUNTNOSE MINNOW	O	T	C	N	6	12.0	1.73	12	0.19	1.0
43-044	CENTRAL STONEROLLER	H		N	N	99	198.0	28.61	620	9.59	3.1
<b>No Species: 5</b>		<b>Nat. Species: 5</b>		<b>Hybrids: 0</b>		<b>Total Counted: 346</b>		<b>Total Rel. Wt. :</b>		<b>6462</b>	
<b>IBI: 24.0</b>		<b>MIwb: N/A</b>									

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM48    River: 11-007    Sycamore Creek    RM: 2.40    Date: 08/22/2012

Time Fished: 0    Distance: 0.150    Drainge (sq mi): 4.8    Depth: 0

Location: Ust. Kugler Mills Rd off Loveland Maderia Rd.    Lat: 39.20004    Long: -84.34042

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	136	272.0	24.11	460	8.33	1.6
43-013	CREEK CHUB	G	T	N	N	297	594.0	52.66	3620	65.58	6.0
43-044	CENTRAL STONEROLLER	H		N	N	131	262.0	23.23	1440	26.09	5.5

**No Species:** 3    **Nat. Species:** 3    **Hybrids:** 0    **Total Counted:** 564    **Total Rel. Wt. :** 5520

**IBI:** 26.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM47 River: 11-007 Sycamore Creek RM: 3.50 Date: 08/21/2012  
 Time Fished: 2198 Distance: 0.150 Drainge (sq mi): 3.5 Depth: 0  
 Location: Dst. Camargo Rd. Lat: 39.18993 Long: -84.35534

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	1	2.0	0.11	50	0.48	25.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	301	602.0	31.85	1324	12.61	2.2
43-013	CREEK CHUB	G	T	N	N	512	1024.0	54.18	7784	74.15	7.6
43-044	CENTRAL STONEROLLER	H		N	N	131	262.0	13.86	1340	12.76	5.1
<b>No Species:</b> 4		<b>Nat. Species:</b> 4		<b>Hybrids:</b> 0		<b>Total Counted:</b> 945		<b>Total Rel. Wt. :</b>		10498	
<b>IBI:</b> 26.0		<b>MIwb:</b> N/A									

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM61 River: 11-008 North Branch Sycamore Creek RM: 0.10 Date: 08/23/2012

Time Fished: 1642 Distance: 0.150 Drainge (sq mi): 10.0 Depth: 0

Location: Ust. Loveland Maderia Rd. (confluence) Lat: 39.22296 Long: -84.32886

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-015	NORTHERN HOG SUCKER	I	M	S	R	4	8.0	0.44	100	1.71	12.5
40-016	WHITE SUCKER	O	T	S	W	8	16.0	0.88	590	10.06	36.8
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	29	58.0	3.21	140	2.39	2.4
43-013	CREEK CHUB	G	T	N	N	47	94.0	5.20	430	7.33	4.5
43-020	EMERALD SHINER	I		M	N	3	6.0	0.33	6	0.10	1.0
43-025	STRIPED SHINER	I		S	N	22	44.0	2.43	198	3.38	4.5
43-031	STEELCOLOR SHINER	I	P	M	N	3	6.0	0.33	6	0.10	1.0
43-032	SPOTFIN SHINER	I		M	N	7	14.0	0.77	28	0.48	2.0
43-034	SAND SHINER	I	M	M	N	26	52.0	2.88	34	0.58	0.6
43-035	MIMIC SHINER	I	I	M	N	343	686.0	37.94	392	6.68	0.5
43-039	SILVERJAW MINNOW	I		M	N	5	10.0	0.55	132	2.25	13.2
43-043	BLUNTNOSE MINNOW	O	T	C	N	193	386.0	21.35	504	8.59	1.3
43-044	CENTRAL STONEROLLER	H		N	N	97	194.0	10.73	906	15.45	4.6
47-004	YELLOW BULLHEAD	I	T	C		6	12.0	0.66	240	4.09	20.0
47-008	STONECAT MADTOM	I	I	C		1	2.0	0.11	12	0.20	6.0
77-003	ROCK BASS	C		C	S	4	8.0	0.44	610	10.40	76.2
77-004	SMALLMOUTH BASS	C	M	C	F	6	12.0	0.66	164	2.80	13.6
77-006	LARGEMOUTH BASS	C		C	F	1	2.0	0.11	22	0.38	11.0
77-008	GREEN SUNFISH	I	T	C	S	22	44.0	2.43	780	13.30	17.7
77-009	BLUEGILL SUNFISH	I	P	C	S	19	38.0	2.10	222	3.79	5.8
77-011	LONGEAR SUNFISH	I	M	C	S	2	4.0	0.22	16	0.27	4.0
77-015	GREEN SF X BLUEGILL SF					2	4.0	0.22	160	2.73	40.0
80-015	GREENSIDE DARTER	I	M	S	D	5	10.0	0.55	32	0.55	3.2
80-022	RAINBOW DARTER	I	M	S	D	27	54.0	2.99	100	1.71	1.8
80-024	FANTAIL DARTER	I		C	D	22	44.0	2.43	40	0.68	0.9

**No Species:** 24    **Nat. Species:** 24    **Hybrids:** 1    **Total Counted:** 904    **Total Rel. Wt. :** 5864

**IBI:** 54.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM60 River: 11-008 North Branch Sycamore Creek RM: 0.50 Date: 08/27/2012  
 Time Fished: 2391 Distance: 0.150 Drainge (sq mi): 9.8 Depth: 0  
 Location: At SR 126 Lat: 39.22873 Long: -84.33315

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	24	48.0	0.92	1800	10.81	37.5
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	285	570.0	10.91	1430	8.59	2.5
43-013	CREEK CHUB	G	T	N	N	147	294.0	5.63	2404	14.44	8.1
43-039	SILVERJAW MINNOW	I		M	N	26	52.0	1.00	160	0.96	3.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	891	1782.0	34.10	1774	10.65	1.0
43-044	CENTRAL STONEROLLER	H		N	N	1008	2016.0	38.58	8460	50.80	4.2
77-008	GREEN SUNFISH	I	T	C	S	1	2.0	0.04	4	0.02	2.0
77-009	BLUEGILL SUNFISH	I	P	C	S	13	26.0	0.50	20	0.12	0.7
80-015	GREENSIDE DARTER	I	M	S	D	5	10.0	0.19	40	0.24	4.0
80-022	RAINBOW DARTER	I	M	S	D	1	2.0	0.04	12	0.07	6.0
80-024	FANTAIL DARTER	I		C	D	212	424.0	8.11	548	3.29	1.2

**No Species:** 11    **Nat. Species:** 11    **Hybrids:** 0    **Total Counted:** 2613    **Total Rel. Wt. :** 16652

**IBI:** 34.0    **MIwb:** N/A



# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM59 River: 11-008 North Branch Sycamore Creek RM: 2.10 Date: 08/23/2012

Time Fished: 2761 Distance: 0.150 Drainge (sq mi): 7.3 Depth: 0

Location: Dst. Hopewell Rd. Lat: 39.24434 Long: -84.32349

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	28	56.0	2.66	2500	23.43	44.6
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	24	48.0	2.28	100	0.94	2.0
43-013	CREEK CHUB	G	T	N	N	124	248.0	11.79	2610	24.46	10.5
43-039	SILVERJAW MINNOW	I		M	N	46	92.0	4.37	204	1.91	2.2
43-043	BLUNTNOSE MINNOW	O	T	C	N	200	400.0	19.01	722	6.77	1.8
43-044	CENTRAL STONEROLLER	H		N	N	477	954.0	45.34	3250	30.46	3.4
47-004	YELLOW BULLHEAD	I	T	C		8	16.0	0.76	710	6.65	44.3
77-008	GREEN SUNFISH	I	T	C	S	10	20.0	0.95	210	1.97	10.5
77-009	BLUEGILL SUNFISH	I	P	C	S	9	18.0	0.86	20	0.19	1.1
80-015	GREENSIDE DARTER	I	M	S	D	1	2.0	0.10	40	0.37	20.0
80-024	FANTAIL DARTER	I		C	D	125	250.0	11.88	304	2.85	1.2

**No Species:** 11      **Nat. Species:** 11      **Hybrids:** 0      **Total Counted:** 1052      **Total Rel. Wt. :** 10670

**IBI:** 36.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM58 River: 11-008 North Branch Sycamore Creek RM: 4.30 Date: 08/23/2012  
 Time Fished: 2833 Distance: 0.150 Drainge (sq mi): 4.4 Depth: 0  
 Location: behind Bethesda North Hospital Lat: 39.25264 Long: -84.33923

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	9	18.0	0.62	502	4.60	27.8
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	162	324.0	11.23	1008	9.23	3.1
43-013	CREEK CHUB	G	T	N	N	239	478.0	16.56	3630	33.23	7.5
43-039	SILVERJAW MINNOW	I		M	N	1	2.0	0.07	16	0.15	8.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	78	156.0	5.41	422	3.86	2.7
43-044	CENTRAL STONEROLLER	H		N	N	850	1700.0	58.91	5102	46.70	3.0
77-008	GREEN SUNFISH	I	T	C	S	2	4.0	0.14	24	0.22	6.0
80-024	FANTAIL DARTER	I		C	D	102	204.0	7.07	220	2.01	1.0

**No Species:** 8      **Nat. Species:** 8      **Hybrids:** 0      **Total Counted:** 1443      **Total Rel. Wt. :** 10924  
**IBI:** 36.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM57 River: 11-008 North Branch Sycamore Creek RM: 5.00 Date: 08/23/2012  
 Time Fished: 1736 Distance: 0.150 Drainge (sq mi): 2.9 Depth: 0  
 Location: Behind 10478 Adventure Lane Lat: 39.25010 Long: -84.35924

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	11	22.0	1.68	620	9.05	28.1
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	25	50.0	3.82	180	2.63	3.6
43-013	CREEK CHUB	G	T	N	N	234	468.0	35.78	3640	53.14	7.7
43-043	BLUNTNOSE MINNOW	O	T	C	N	1	2.0	0.15	20	0.29	10.0
43-044	CENTRAL STONEROLLER	H		N	N	373	746.0	57.03	2240	32.70	3.0
77-006	LARGEMOUTH BASS	C		C	F	6	12.0	0.92	50	0.73	4.1
77-008	GREEN SUNFISH	I	T	C	S	4	8.0	0.61	100	1.46	12.5

**No Species:** 7      **Nat. Species:** 7      **Hybrids:** 0      **Total Counted:** 654      **Total Rel. Wt. :** 6850

**IBI:** 34.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM40 River: 11-009 Polk Run RM: 0.30 Date: 08/20/2012

Time Fished: 0 Distance: 0.150 Drainge (sq mi): 10.8 Depth: 0

Location: Lat: 39.25080 Long: -84.29890

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-015	NORTHERN HOG SUCKER	I	M	S	R	3	6.0	0.22	52	0.37	8.6
43-013	CREEK CHUB	G	T	N	N	20	40.0	1.46	380	2.69	9.5
43-020	EMERALD SHINER	I		M	N	73	146.0	5.32	154	1.09	1.0
43-025	STRIPED SHINER	I		S	N	10	20.0	0.73	80	0.57	4.0
43-032	SPOTFIN SHINER	I		M	N	1	2.0	0.07	2	0.01	1.0
43-034	SAND SHINER	I	M	M	N	56	112.0	4.08	134	0.95	1.2
43-035	MIMIC SHINER	I	I	M	N	266	532.0	19.40	336	2.38	0.6
43-039	SILVERJAW MINNOW	I		M	N	4	8.0	0.29	16	0.11	2.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	203	406.0	14.81	652	4.61	1.6
43-044	CENTRAL STONEROLLER	H		N	N	331	662.0	24.14	6480	45.86	9.7
47-004	YELLOW BULLHEAD	I	T	C		11	22.0	0.80	1372	9.71	62.3
70-001	BROOK SILVERSIDE	I	M	M		1	2.0	0.07	8	0.06	4.0
77-003	ROCK BASS	C		C	S	1	2.0	0.07	16	0.11	8.0
77-004	SMALLMOUTH BASS	C	M	C	F	13	26.0	0.95	590	4.18	22.6
77-008	GREEN SUNFISH	I	T	C	S	59	118.0	4.30	1880	13.31	15.9
77-009	BLUEGILL SUNFISH	I	P	C	S	35	70.0	2.55	540	3.82	7.7
77-011	LONGEAR SUNFISH	I	M	C	S	4	8.0	0.29	260	1.84	32.5
80-015	GREENSIDE DARTER	I	M	S	D	7	14.0	0.51	150	1.06	10.7
80-022	RAINBOW DARTER	I	M	S	D	203	406.0	14.81	816	5.77	2.0
80-024	FANTAIL DARTER	I		C	D	70	140.0	5.11	212	1.50	1.5

**No Species:** 20    **Nat. Species:** 20    **Hybrids:** 0    **Total Counted:** 1371    **Total Rel. Wt. :** 14130

**IBI:** 52.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM39 River: 11-009 Polk Run RM: 3.00 Date: 08/20/2012  
 Time Fished: 2330 Distance: 0.150 Drainge (sq mi): 2.7 Depth: 0  
 Location: Dst. Montgomery Rd. Lat: 39.27865 Long: -84.31808

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	13	26.0	3.04	2422	34.37	93.1
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	97	194.0	22.66	600	8.52	3.0
43-013	CREEK CHUB	G	T	N	N	178	356.0	41.59	2110	29.95	5.9
43-043	BLUNTNOSE MINNOW	O	T	C	N	30	60.0	7.01	306	4.34	5.1
43-044	CENTRAL STONEROLLER	H		N	N	14	28.0	3.27	396	5.62	14.1
77-008	GREEN SUNFISH	I	T	C	S	27	54.0	6.31	484	6.87	8.9
77-009	BLUEGILL SUNFISH	I	P	C	S	26	52.0	6.07	620	8.80	11.9
80-014	JOHNNY DARTER	I		C	D	41	82.0	9.58	96	1.36	1.1
80-024	FANTAIL DARTER	I		C	D	2	4.0	0.47	12	0.17	3.0

**No Species:** 9      **Nat. Species:** 9      **Hybrids:** 0      **Total Counted:** 428      **Total Rel. Wt. :** 7046  
**IBI:** 32.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM46 River: 11-009 Polk Run RM: 3.20 Date: 08/21/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 2.6 Depth: 0  
 Location: Ust. 7 Gables Rd. Lat: 39.28092 Long: -84.32027

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	4	8.0	1.64	1480	27.62	185.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	52	104.0	21.31	290	5.41	2.7
43-013	CREEK CHUB	G	T	N	N	138	276.0	56.56	3020	56.36	10.9
43-043	BLUNTNOSE MINNOW	O	T	C	N	1	2.0	0.41	8	0.15	4.0
43-044	CENTRAL STONEROLLER	H		N	N	2	4.0	0.82	20	0.37	5.0
77-008	GREEN SUNFISH	I	T	C	S	17	34.0	6.97	420	7.84	12.3
77-009	BLUEGILL SUNFISH	I	P	C	S	3	6.0	1.23	40	0.75	6.6
80-014	JOHNNY DARTER	I		C	D	27	54.0	11.07	80	1.49	1.4

**No Species:** 8      **Nat. Species:** 8      **Hybrids:** 0      **Total Counted:** 244      **Total Rel. Wt. :** 5358  
**IBI:** 28.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM38 River: 11-010 O'Bannon Creek RM: 0.10 Date: 07/26/2012

Time Fished: 0 Distance: 0.200 Drainge (sq mi): 59.0 Depth: 0

Location: at Loveland Park Lat: 39.26955 Long: -84.25632

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-008	SILVER REDHORSE	I	M	S	R	1	1.5	0.42	3750	20.13	2500.0
43-001	COMMON CARP	O	T	M	G	5	7.5	2.12	12525	67.24	1670.0
43-020	EMERALD SHINER	I		M	N	18	27.0	7.63	15	0.08	0.5
43-024	SCARLET SHINER	I	M	S	N	1	1.5	0.42	3	0.02	2.0
43-032	SPOTFIN SHINER	I		M	N	7	10.5	2.97	27	0.14	2.5
43-035	MIMIC SHINER	I	I	M	N	16	24.0	6.78	37	0.20	1.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	55	82.5	23.31	78	0.42	0.9
43-044	CENTRAL STONEROLLER	H		N	N	29	43.5	12.29	231	1.24	5.3
47-004	YELLOW BULLHEAD	I	T	C		2	3.0	0.85	28	0.15	9.5
47-007	FLATHEAD CATFISH	P		C	F	1	1.5	0.42	1125	6.04	750.0
47-008	STONECAT MADTOM	I	I	C		3	4.5	1.27	22	0.12	5.0
77-003	ROCK BASS	C		C	S	1	1.5	0.42	15	0.08	10.0
77-004	SMALLMOUTH BASS	C	M	C	F	5	7.5	2.12	60	0.32	8.0
77-005	SPOTTED BASS	C		C	F	6	9.0	2.54	60	0.32	6.6
77-008	GREEN SUNFISH	I	T	C	S	10	15.0	4.24	210	1.13	14.0
77-009	BLUEGILL SUNFISH	I	P	C	S	41	61.5	17.37	375	2.01	6.1
80-015	GREENSIDE DARTER	I	M	S	D	8	12.0	3.39	22	0.12	1.8
80-016	BANDED DARTER	I	I	S	D	5	7.5	2.12	4	0.02	0.6
80-022	RAINBOW DARTER	I	M	S	D	22	33.0	9.32	39	0.21	1.1

**No Species:** 19    **Nat. Species:** 18    **Hybrids:** 0    **Total Counted:** 236    **Total Rel. Wt. :** 18628

**IBI:** 38.0    **MIwb:** 7.1

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM38 River: 11-010 O'Bannon Creek RM: 0.10 Date: 10/02/2012

Time Fished: 0 Distance: 0.200 Drainge (sq mi): 59.0 Depth: 0

Location: at Loveland Park Lat: 39.26955 Long: -84.25632

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-001	SKIPJACK HERRING	P		M		1	1.5	0.30	75	0.43	50.0
40-005	QUILLBACK CARPSUCKER	O		M	C	1	1.5	0.30	2250	12.97	1500.0
40-006	RIVER CARPSUCKER	O		M	C	1	1.5	0.30	1650	9.51	1100.0
40-010	GOLDEN REDHORSE	I	M	S	R	2	3.0	0.61	390	2.25	130.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	3	4.5	0.91	180	1.04	40.0
43-001	COMMON CARP	O	T	M	G	3	4.5	0.91	10950	63.12	2433.3
43-021	SILVER SHINER	I	I	S	N	1	1.5	0.30	9	0.05	6.0
43-025	STRIPED SHINER	I		S	N	1	1.5	0.30	3	0.02	2.0
43-032	SPOTFIN SHINER	I		M	N	4	6.0	1.22	9	0.05	1.5
43-035	MIMIC SHINER	I	I	M	N	2	3.0	0.61	3	0.02	1.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	39	58.5	11.85	150	0.86	2.5
43-044	CENTRAL STONEROLLER	H		N	N	59	88.5	17.93	495	2.85	5.5
47-007	FLATHEAD CATFISH	P		C	F	1	1.5	0.30	6	0.03	4.0
77-005	SPOTTED BASS	C		C	F	6	9.0	1.82	127	0.73	14.1
77-006	LARGEMOUTH BASS	C		C	F	1	1.5	0.30	60	0.35	40.0
77-008	GREEN SUNFISH	I	T	C	S	6	9.0	1.82	90	0.52	10.0
77-009	BLUEGILL SUNFISH	I	P	C	S	26	39.0	7.90	240	1.38	6.1
77-011	LONGEAR SUNFISH	I	M	C	S	84	126.0	25.53	315	1.82	2.5
77-012	REDEAR SUNFISH	I		C	E	2	3.0	0.61	90	0.52	30.0
77-021	GREEN SF X LONGEAR SF					1	1.5	0.30	30	0.17	20.0
80-011	LOGPERCH	I	M	S	D	5	7.5	1.52	37	0.22	5.0
80-015	GREENSIDE DARTER	I	M	S	D	16	24.0	4.86	52	0.30	2.1
80-016	BANDED DARTER	I	I	S	D	18	27.0	5.47	45	0.26	1.6
80-022	RAINBOW DARTER	I	M	S	D	45	67.5	13.68	90	0.52	1.3
80-024	FANTAIL DARTER	I		C	D	1	1.5	0.30	1	0.01	1.0

**No Species:** 24    **Nat. Species:** 22    **Hybrids:** 1    **Total Counted:** 329    **Total Rel. Wt. :** 17349

**IBI:** 50.0    **MIwb:** 7.6



# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM37 River: 11-010 O'Bannon Creek RM: 1.80 Date: 07/26/2012

Time Fished: 2362 Distance: 0.200 Drainge (sq mi): 54.3 Depth: 0

Location: at O'Bannon Creek Rd. Lat: 39.26622 Long: -84.23366

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-009	BLACK REDHORSE	I	I	S	R	6	9.0	1.70	3300	28.17	366.6
40-010	GOLDEN REDHORSE	I	M	S	R	1	1.5	0.28	30	0.26	20.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	7	10.5	1.98	960	8.19	91.4
43-020	EMERALD SHINER	I		M	N	19	28.5	5.38	24	0.20	0.8
43-022	ROSYFACE SHINER	I	I	S	N	6	9.0	1.70	22	0.19	2.5
43-024	SCARLET SHINER	I	M	S	N	9	13.5	2.55	15	0.13	1.1
43-025	STRIPED SHINER	I		S	N	54	81.0	15.30	597	5.10	7.3
43-031	STEELCOLOR SHINER	I	P	M	N	24	36.0	6.80	238	2.04	6.6
43-032	SPOTFIN SHINER	I		M	N	6	9.0	1.70	33	0.28	3.6
43-034	SAND SHINER	I	M	M	N	2	3.0	0.57	4	0.04	1.5
43-035	MIMIC SHINER	I	I	M	N	17	25.5	4.82	49	0.42	1.9
43-043	BLUNTNOSE MINNOW	O	T	C	N	44	66.0	12.46	130	1.11	1.9
47-004	YELLOW BULLHEAD	I	T	C		6	9.0	1.70	382	3.27	42.5
77-003	ROCK BASS	C		C	S	14	21.0	3.97	750	6.40	35.7
77-004	SMALLMOUTH BASS	C	M	C	F	13	19.5	3.68	2955	25.22	151.5
77-005	SPOTTED BASS	C		C	F	5	7.5	1.42	15	0.13	2.0
77-008	GREEN SUNFISH	I	T	C	S	27	40.5	7.65	675	5.76	16.6
77-009	BLUEGILL SUNFISH	I	P	C	S	41	61.5	11.61	900	7.68	14.6
77-011	LONGEAR SUNFISH	I	M	C	S	1	1.5	0.28	405	3.46	270.0
80-015	GREENSIDE DARTER	I	M	S	D	30	45.0	8.50	189	1.61	4.2
80-016	BANDED DARTER	I	I	S	D	6	9.0	1.70	7	0.06	0.8
80-022	RAINBOW DARTER	I	M	S	D	13	19.5	3.68	30	0.26	1.5
80-024	FANTAIL DARTER	I		C	D	2	3.0	0.57	1	0.01	0.5

**No Species:** 23    **Nat. Species:** 23    **Hybrids:** 0    **Total Counted:** 353    **Total Rel. Wt. :** 11715

**IBI:** 52.0    **MIwb:** 9.1

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM37 River: 11-010 O'Bannon Creek RM: 1.80 Date: 10/03/2012

Time Fished: 2402 Distance: 0.200 Drainge (sq mi): 54.3 Depth: 0

Location: at O'Bannon Creek Rd. Lat: 39.26622 Long: -84.23366

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	1.5	0.14	135	0.42	90.0
40-006	RIVER CARPSUCKER	O		M	C	1	1.5	0.14	1800	5.56	1200.0
40-010	GOLDEN REDHORSE	I	M	S	R	44	66.0	6.36	19710	60.93	298.6
40-015	NORTHERN HOG SUCKER	I	M	S	R	4	6.0	0.58	765	2.36	127.5
43-001	COMMON CARP	O	T	M	G	1	1.5	0.14	2700	8.35	1800.0
43-020	EMERALD SHINER	I		M	N	78	117.0	11.27	345	1.07	2.9
43-021	SILVER SHINER	I	I	S	N	16	24.0	2.31	114	0.35	4.7
43-022	ROSYFACE SHINER	I	I	S	N	8	12.0	1.16	24	0.07	2.0
43-024	SCARLET SHINER	I	M	S	N	23	34.5	3.32	40	0.13	1.1
43-025	STRIPED SHINER	I		S	N	65	97.5	9.39	439	1.36	4.5
43-031	STEELCOLOR SHINER	I	P	M	N	2	3.0	0.29	1	0.00	0.5
43-032	SPOTFIN SHINER	I		M	N	76	114.0	10.98	324	1.00	2.8
43-034	SAND SHINER	I	M	M	N	51	76.5	7.37	154	0.48	2.0
43-039	SILVERJAW MINNOW	I		M	N	22	33.0	3.18	93	0.29	2.8
43-043	BLUNTNOSE MINNOW	O	T	C	N	74	111.0	10.69	411	1.27	3.7
43-044	CENTRAL STONEROLLER	H		N	N	64	96.0	9.25	1132	3.50	11.8
47-004	YELLOW BULLHEAD	I	T	C		1	1.5	0.14	7	0.02	5.0
70-001	BROOK SILVERSIDE	I	M	M		3	4.5	0.43	15	0.05	3.3
77-003	ROCK BASS	C		C	S	5	7.5	0.72	195	0.60	26.0
77-004	SMALLMOUTH BASS	C	M	C	F	23	34.5	3.32	2085	6.45	60.4
77-008	GREEN SUNFISH	I	T	C	S	17	25.5	2.46	415	1.28	16.2
77-009	BLUEGILL SUNFISH	I	P	C	S	29	43.5	4.19	501	1.55	11.5
77-011	LONGEAR SUNFISH	I	M	C	S	47	70.5	6.79	813	2.51	11.5
80-014	JOHNNY DARTER	I		C	D	2	3.0	0.29	4	0.01	1.5
80-015	GREENSIDE DARTER	I	M	S	D	17	25.5	2.46	81	0.25	3.1
80-016	BANDED DARTER	I	I	S	D	6	9.0	0.87	10	0.03	1.1
80-022	RAINBOW DARTER	I	M	S	D	10	15.0	1.45	30	0.09	2.0
80-024	FANTAIL DARTER	I		C	D	2	3.0	0.29	1	0.00	0.5

**No Species:** 28    **Nat. Species:** 27    **Hybrids:** 0    **Total Counted:** 692    **Total Rel. Wt. :** 32349

**IBI:** 52.0    **MIwb:** 9.5

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: RF08 River: 11-021 Turtle Creek RM: 6.10 Date: 08/08/2012

Time Fished: 0 Distance: 0.150 Drainge (sq mi): 18.0 Depth: 0

Location: Lat: 39.43110 Long: -84.22690

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-006	RIVER CARPSUCKER	O		M	C	1	2.0	0.03	40	0.38	20.0
40-010	GOLDEN REDHORSE	I	M	S	R	1	2.0	0.03	80	0.75	40.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	7	14.0	0.20	164	1.54	11.7
40-016	WHITE SUCKER	O	T	S	W	18	36.0	0.53	1280	12.01	35.5
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	3	6.0	0.09	12	0.11	2.0
43-013	CREEK CHUB	G	T	N	N	128	256.0	3.74	954	8.95	3.7
43-021	SILVER SHINER	I	I	S	N	1	2.0	0.03	8	0.08	4.0
43-022	ROSYFACE SHINER	I	I	S	N	5	10.0	0.15	10	0.09	1.0
43-024	SCARLET SHINER	I	M	S	N	4	8.0	0.12	18	0.17	2.2
43-025	STRIPED SHINER	I		S	N	231	462.0	6.75	880	8.26	1.9
43-034	SAND SHINER	I	M	M	N	62	124.0	1.81	200	1.88	1.6
43-039	SILVERJAW MINNOW	I		M	N	104	208.0	3.04	190	1.78	0.9
43-043	BLUNTNORSE MINNOW	O	T	C	N	2155	4310.0	62.99	1690	15.86	0.3
43-044	CENTRAL STONEROLLER	H		N	N	418	836.0	12.22	3022	28.36	3.6
47-004	YELLOW BULLHEAD	I	T	C		1	2.0	0.03	20	0.19	10.0
77-003	ROCK BASS	C		C	S	1	2.0	0.03	40	0.38	20.0
77-004	SMALLMOUTH BASS	C	M	C	F	4	8.0	0.12	250	2.35	31.2
77-005	SPOTTED BASS	C		C	F	1	2.0	0.03	100	0.94	50.0
77-008	GREEN SUNFISH	I	T	C	S	44	88.0	1.29	1062	9.97	12.0
77-009	BLUEGILL SUNFISH	I	P	C	S	26	52.0	0.76	200	1.88	3.8
80-014	JOHNNY DARTER	I		C	D	14	28.0	0.41	40	0.38	1.4
80-015	GREENSIDE DARTER	I	M	S	D	14	28.0	0.41	120	1.13	4.2
80-022	RAINBOW DARTER	I	M	S	D	136	272.0	3.98	212	1.99	0.7
80-024	FANTAIL DARTER	I		C	D	42	84.0	1.23	64	0.60	0.7

**No Species:** 24    **Nat. Species:** 24    **Hybrids:** 0    **Total Counted:** 3421    **Total Rel. Wt. :** 10656

**IBI:** 40.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: RF09 River: 11-022 Dry Run RM: 1.80 Date: 08/08/2012  
 Time Fished: 3013 Distance: 0.150 Drainge (sq mi): 5.0 Depth: 0  
 Location: Lat: 39.38310 Long: -84.20440

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	2	4.0	0.49	180	4.65	45.0
43-003	GOLDEN SHINER	I	T	M	N	1	2.0	0.25	12	0.31	6.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	148	296.0	36.54	500	12.91	1.6
43-013	CREEK CHUB	G	T	N	N	44	88.0	10.86	640	16.53	7.2
43-043	BLUNTNOSE MINNOW	O	T	C	N	30	60.0	7.41	120	3.10	2.0
43-044	CENTRAL STONEROLLER	H		N	N	34	68.0	8.40	500	12.91	7.3
77-006	LARGEMOUTH BASS	C		C	F	2	4.0	0.49	110	2.84	27.5
77-008	GREEN SUNFISH	I	T	C	S	32	64.0	7.90	1090	28.15	17.0
77-009	BLUEGILL SUNFISH	I	P	C	S	54	108.0	13.33	540	13.95	5.0
80-022	RAINBOW DARTER	I	M	S	D	42	84.0	10.37	140	3.62	1.6
80-024	FANTAIL DARTER	I		C	D	16	32.0	3.95	40	1.03	1.2

**No Species:** 11    **Nat. Species:** 11    **Hybrids:** 0    **Total Counted:** 405    **Total Rel. Wt. :** 3872  
**IBI:** 38.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: RF10 River: 11-030 Newman Run RM: 0.30 Date: 08/30/2012

Time Fished: 0 Distance: 0.150 Drainge (sq mi): 9.0 Depth: 0

Location: Lat: 39.51830 Long: 84.09830

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-999	NO FISH					0	0.0	***.**	0	0.00	*****

**No Species:** 0      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 0      **Total Rel. Wt. :** 0

**IBI:** -9.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM103 River: 11-047 Trib. to Little Miami R. (RM 0.83) RM: 0.20 Date: 08/30/2012

Time Fished: 2126 Distance: 0.150 Drainge (sq mi): 1.7 Depth: 0

Location: dst. Kellogg Rd. Lat: 39.07626 Long: -84.42218

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-001	COMMON CARP	O	T	M	G	1	2.0	0.30	20	2.02	10.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	6	12.0	1.80	30	3.02	2.5
43-013	CREEK CHUB	G	T	N	N	156	312.0	46.71	560	56.45	1.7
43-020	EMERALD SHINER	I		M	N	22	44.0	6.59	20	2.02	0.4
43-025	STRIPED SHINER	I		S	N	2	4.0	0.60	2	0.20	0.5
43-034	SAND SHINER	I	M	M	N	34	68.0	10.18	30	3.02	0.4
43-035	MIMIC SHINER	I	I	M	N	55	110.0	16.47	38	3.83	0.3
43-039	SILVERJAW MINNOW	I		M	N	5	10.0	1.50	30	3.02	3.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	19	38.0	5.69	48	4.84	1.2
43-044	CENTRAL STONEROLLER	H		N	N	13	26.0	3.89	78	7.86	3.0
47-004	YELLOW BULLHEAD	I	T	C		2	4.0	0.60	20	2.02	5.0
77-004	SMALLMOUTH BASS	C	M	C	F	1	2.0	0.30	30	3.02	15.0
77-009	BLUEGILL SUNFISH	I	P	C	S	1	2.0	0.30	8	0.81	4.0
77-011	LONGEAR SUNFISH	I	M	C	S	1	2.0	0.30	10	1.01	5.0
80-016	BANDED DARTER	I	I	S	D	3	6.0	0.90	10	1.01	1.6
80-022	RAINBOW DARTER	I	M	S	D	12	24.0	3.59	50	5.04	2.0
85-001	FRESHWATER DRUM		P	M		1	2.0	0.30	8	0.81	4.0

**No Species:** 17    **Nat. Species:** 16    **Hybrids:** 0    **Total Counted:** 334    **Total Rel. Wt. :** 992

**IBI:** 52.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM53    River: 11-049    Trib. to Sycamore Creek (RM 1.12)    RM: 0.10    Date: 09/25/2012

Time Fished: 2139    Distance: 0.150    Drainge (sq mi): 4.9    Depth: 0

Location: at mouth    Lat: 39.21640    Long: -84.33330

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	50	100.0	7.26	300	5.36	3.0
43-013	CREEK CHUB	G	T	N	N	255	510.0	37.01	2040	36.43	4.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	168	336.0	24.38	440	7.86	1.3
43-044	CENTRAL STONEROLLER	H		N	N	209	418.0	30.33	2800	50.00	6.7
80-024	FANTAIL DARTER	I		C	D	7	14.0	1.02	20	0.36	1.4

**No Species:** 5    **Nat. Species:** 5    **Hybrids:** 0    **Total Counted:** 689    **Total Rel. Wt. :** 5600

**IBI:** 24.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM56 River: 11-049 Trib. to Sycamore Creek (RM 1.12) RM: 0.30 Date: 08/25/2012

Time Fished: 0 Distance: 0.150 Drainge (sq mi): 5.6 Depth: 0

Location: Ust. Loveland Maderia Rd. Ust. OEPA site Lat: 39.21630 Long: -84.33630

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	12	24.0	1.94	1680	18.06	70.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	18	36.0	2.90	200	2.15	5.5
43-013	CREEK CHUB	G	T	N	N	266	532.0	42.90	3496	37.59	6.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	31	62.0	5.00	100	1.08	1.6
43-044	CENTRAL STONEROLLER	H		N	N	292	584.0	47.10	3820	41.08	6.5
80-024	FANTAIL DARTER	I		C	D	1	2.0	0.16	4	0.04	2.0

**No Species:** 6      **Nat. Species:** 6      **Hybrids:** 0      **Total Counted:** 620      **Total Rel. Wt. :** 9300

**IBI:** 32.0      **MIwb:** N/A



# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM55 River: 11-049 Trib. to Sycamore Creek (RM 1.12) RM: 1.00 Date: 08/25/2012

Time Fished: 1713 Distance: 0.150 Drainge (sq mi): 5.3 Depth: 0

Location: Ust. Blome Rd. Lat: 39.21770 Long: -84.34671

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-013	CREEK CHUB	G	T	N	N	165	330.0	44.47	1756	55.68	5.3
43-042	FATHEAD MINNOW	O	T	C	N	2	4.0	0.54	8	0.25	2.0
43-044	CENTRAL STONEROLLER	H		N	N	204	408.0	54.99	1390	44.07	3.4

**No Species:** 3      **Nat. Species:** 3      **Hybrids:** 0      **Total Counted:** 371      **Total Rel. Wt. :** 3154

**IBI:** 24.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM74 River: 11-051 East Fork Duck Creek RM: 0.15 Date: 08/07/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 3.4 Depth: 0  
 Location: Dst. CSO 71 and 66 Lat: 39.15771 Long: -84.40774

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	17	34.0	3.48	1500	15.89	44.1
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	38	76.0	7.77	340	3.60	4.4
43-013	CREEK CHUB	G	T	N	N	170	340.0	34.76	5680	60.18	16.7
43-020	EMERALD SHINER	I		M	N	29	58.0	5.93	80	0.85	1.3
43-039	SILVERJAW MINNOW	I		M	N	3	6.0	0.61	8	0.08	1.3
43-043	BLUNTNOSE MINNOW	O	T	C	N	53	106.0	10.84	360	3.81	3.4
43-044	CENTRAL STONEROLLER	H		N	N	121	242.0	24.74	710	7.52	2.9
77-008	GREEN SUNFISH	I	T	C	S	58	116.0	11.86	760	8.05	6.5

**No Species:** 8      **Nat. Species:** 8      **Hybrids:** 0      **Total Counted:** 489      **Total Rel. Wt. :** 9438  
**IBI:** 28.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM84 River: 11-051 East Fork Duck Creek RM: 0.50 Date: 08/16/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 2.2 Depth: 0  
 Location: Lat: 39.16310 Long: -84.40220

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	6	12.0	5.50	20	0.81	1.6
43-013	CREEK CHUB	G	T	N	N	71	142.0	65.14	2140	86.85	15.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	3	6.0	2.75	4	0.16	0.6
43-044	CENTRAL STONEROLLER	H		N	N	29	58.0	26.61	300	12.18	5.1

**No Species:** 4      **Nat. Species:** 4      **Hybrids:** 0      **Total Counted:** 109      **Total Rel. Wt. :** 2464  
**IBI:** 24.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM85 River: 11-051 East Fork Duck Creek RM: 1.90 Date: 08/16/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 1.5 Depth: 0  
 Location: Stewart Ave. across from BMW dealer Lat: 39.17864 Long: -84.39526

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	1	2.0	7.14	6	1.55	3.0
43-013	CREEK CHUB	G	T	N	N	10	20.0	71.43	340	88.08	17.0
43-044	CENTRAL STONEROLLER	H		N	N	3	6.0	21.43	40	10.36	6.6

**No Species:** 3      **Nat. Species:** 3      **Hybrids:** 0      **Total Counted:** 14      **Total Rel. Wt. :** 386  
**IBI:** 18.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: River: 11-051 East Fork Duck Creek RM: 2.90 Date: 08/15/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 0.0 Depth: 0  
 Location: Lat: 0.00000 Long: 0.00000

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-013	CREEK CHUB	G	T	N	N	49	98.0	100.00	310	100.00	3.1

**No Species:** 0      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 49      **Total Rel. Wt. :** 310  
**IBI:** 0.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM69    River: 11-064    Trib. to Dry Run (RM 4.20)    RM: 0.10    Date: 08/29/2012  
 Time Fished: 0    Distance: 0.000    Drainge (sq mi): 0.9    Depth: 0  
 Location: RM 0.1    Lat: 39.10403    Long: -84.32073

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****
<b>No Species:</b> 1		<b>Nat. Species:</b> 1		<b>Hybrids:</b> 0		<b>Total Counted:</b> 0		<b>Total Rel. Wt. :</b>		0	
<b>IBI:</b> -9.0		<b>MIwb:</b> N/A									

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM21 River: 11-066 Trib to LMR at RM 13.1 RM: 1.50 Date: 08/14/2012  
 Time Fished: 1340 Distance: 0.150 Drainge (sq mi): 3.0 Depth: 0  
 Location: At Red Bird Hollow Lat: 39.17167 Long: -84.31737

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	3	6.0	1.51	220	15.01	36.6
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	90	180.0	45.23	360	24.56	2.0
43-013	CREEK CHUB	G	T	N	N	30	60.0	15.08	300	20.46	5.0
43-016	SOUTH. REDBELLY DACE	H		S	N	1	2.0	0.50	6	0.41	3.0
43-044	CENTRAL STONEROLLER	H		N	N	46	92.0	23.12	460	31.38	5.0
80-022	RAINBOW DARTER	I	M	S	D	29	58.0	14.57	120	8.19	2.0

**No Species:** 6      **Nat. Species:** 6      **Hybrids:** 0      **Total Counted:** 199      **Total Rel. Wt. :** 1466  
**IBI:** 36.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM20 River: 11-067 Trib to LMR at RM 7.75 RM: 1.20 Date: 08/14/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 0.5 Depth: 0  
 Location: At Walton Creek Rd. Lat: 39.15506 Long: -84.35799

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	27	54.0	24.55	160	5.48	2.9
43-013	CREEK CHUB	G	T	N	N	83	166.0	75.45	2760	94.52	16.6

**No Species:** 2      **Nat. Species:** 2      **Hybrids:** 0      **Total Counted:** 110      **Total Rel. Wt. :** 2920  
**IBI:** 24.0      **MIwb:** N/A



# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM19 River: 11-068 Trib (RM2.7) to Trib to LMR at RM13.1 RM: 0.50 Date: 08/14/2012

Time Fished: 0 Distance: 0.150 Drainge (sq mi): 0.6 Depth: 0

Location: Dst. Drake Rd. Lat: 39.17218 Long: -84.34544

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-999	NO FISH					0	0.0	***.**	0	0.00	*****

**No Species:** 1      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 0      **Total Rel. Wt. :** 0

**IBI:** 12.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM44 River: 11-069 Trib to Polk Run at RM 1.79 RM: 0.40 Date: 08/22/2012  
 Time Fished: 2059 Distance: 0.150 Drainge (sq mi): 2.4 Depth: 0  
 Location: adj. Old Creek Trail; Dst. Terwilliger Trail Rd. Lat: 39.26780 Long: -84.31475

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	10	20.0	2.21	2280	32.60	114.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	93	186.0	20.53	480	6.86	2.5
43-013	CREEK CHUB	G	T	N	N	242	484.0	53.42	2082	29.77	4.3
43-043	BLUNTNOSE MINNOW	O	T	C	N	13	26.0	2.87	56	0.80	2.1
43-044	CENTRAL STONEROLLER	H		N	N	20	40.0	4.42	122	1.74	3.0
47-004	YELLOW BULLHEAD	I	T	C		5	10.0	1.10	824	11.78	82.4
77-008	GREEN SUNFISH	I	T	C	S	37	74.0	8.17	1090	15.58	14.7
80-014	JOHNNY DARTER	I		C	D	33	66.0	7.28	60	0.86	0.9

**No Species:** 8      **Nat. Species:** 8      **Hybrids:** 0      **Total Counted:** 453      **Total Rel. Wt. :** 6994  
**IBI:** 30.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM41 River: 11-069 Trib to Polk Run at RM 1.79 RM: 2.50 Date: 08/22/2012  
 Time Fished: 833 Distance: 0.150 Drainge (sq mi): 1.3 Depth: 0  
 Location: 8073 School Rd. (Private Residence) Lat: 39.28815 Long: -84.33721

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	1	2.0	0.25	20	0.81	10.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	45	90.0	11.36	220	8.94	2.4
43-013	CREEK CHUB	G	T	N	N	173	346.0	43.69	1524	61.95	4.4
43-043	BLUNTNOSE MINNOW	O	T	C	N	15	30.0	3.79	70	2.85	2.3
43-044	CENTRAL STONEROLLER	H		N	N	155	310.0	39.14	562	22.85	1.8
77-006	LARGEMOUTH BASS	C		C	F	3	6.0	0.76	20	0.81	3.3
77-008	GREEN SUNFISH	I	T	C	S	4	8.0	1.01	44	1.79	5.5

**No Species:** 7      **Nat. Species:** 7      **Hybrids:** 0      **Total Counted:** 396      **Total Rel. Wt. :** 2460

**IBI:** 36.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM43    River: 11-070    Trib to Polk Run @ RM 0.70    RM: 0.70    Date: 08/22/2012  
 Time Fished: 2152    Distance: 0.150    Drainge (sq mi): 2.5    Depth: 0  
 Location: Heartwood Ct. ; off abandoned Rd.    Lat: 39.26112    Long: -84.29697

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	40	80.0	16.19	168	5.77	2.1
43-013	CREEK CHUB	G	T	N	N	110	220.0	44.53	1408	48.35	6.4
43-043	BLUNTNOSE MINNOW	O	T	C	N	4	8.0	1.62	28	0.96	3.5
43-044	CENTRAL STONEROLLER	H		N	N	75	150.0	30.36	568	19.51	3.7
77-008	GREEN SUNFISH	I	T	C	S	18	36.0	7.29	740	25.41	20.5
<b>No Species: 5</b>		<b>Nat. Species: 5</b>		<b>Hybrids: 0</b>		<b>Total Counted: 247</b>		<b>Total Rel. Wt. :</b>		<b>2912</b>	
<b>IBI: 28.0</b>		<b>MIwb: N/A</b>									

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM42    River: 11-070    Trib to Polk Run @ RM 0.70    RM: 2.00    Date: 08/21/2012  
 Time Fished: 1224    Distance: 0.150    Drainge (sq mi): 0.8    Depth: 0  
 Location: behind Conveyer System Manufactor (W. Loveland & Glen Lake Rd.)    Lat: 39.27716    Long: -84.29975

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-013	CREEK CHUB	G	T	N	N	134	268.0	48.55	3800	50.49	14.1
43-044	CENTRAL STONEROLLER	H		N	N	47	94.0	17.03	420	5.58	4.4
77-008	GREEN SUNFISH	I	T	C	S	93	186.0	33.70	3080	40.92	16.5
77-009	BLUEGILL SUNFISH	I	P	C	S	2	4.0	0.72	226	3.00	56.5
<b>No Species:</b> 4		<b>Nat. Species:</b> 4		<b>Hybrids:</b> 0		<b>Total Counted:</b> 276		<b>Total Rel. Wt. :</b>		7526	
<b>IBI:</b> 30.0		<b>MIwb:</b> N/A									

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM45 River: 11-071 Trib RM1.77 to Trib to Polk Run @ RM: 0.20 Date: 08/21/2012  
 Time Fished: Distance: RM0.70 Drainge (sq mi): Depth:  
 Location: 1605 0.150 Lat: 1.1 Long: 0  
 behind CUSA plant off of Commercial Dr. 39.27588 -84.30340

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	8	16.0	2.97	40	0.78	2.5
43-013	CREEK CHUB	G	T	N	N	146	292.0	54.28	3364	65.55	11.5
43-044	CENTRAL STONEROLLER	H		N	N	77	154.0	28.62	736	14.34	4.7
77-006	LARGEMOUTH BASS	C		C	F	1	2.0	0.37	12	0.23	6.0
77-008	GREEN SUNFISH	I	T	C	S	37	74.0	13.75	980	19.10	13.2

**No Species:** 5     **Nat. Species:** 5     **Hybrids:** 0     **Total Counted:** 269     **Total Rel. Wt. :** 5132  
**IBI:** 30.0     **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM65    River: 11-072    Trbi to N Br Sycamore Creek @ RM5.3    RM: 1.10    Date: 08/28/2012

Time Fished: 0    Distance: 0.150    Drainge (sq mi): 0.2    Depth: 0

Location: RM 1.1    Lat: 39.23713    Long: -84.37125

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 1    **Nat. Species:** 1    **Hybrids:** 0    **Total Counted:** 0    **Total Rel. Wt. :** 0

**IBI:** -9.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM63 River: 11-073 Trib to NBr Sycamore Cr @RM 5.4 RM: 0.60 Date: 08/28/2012

Time Fished: 1903 Distance: 0.150 Drainge (sq mi): 1.1 Depth: 0

Location: Adj. Old Pfiffer Rd. @ Ursuline H.S. Lat: 39.24888 Long: -84.37217

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	2	4.0	1.15	110	3.53	27.5
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	14	28.0	8.05	190	6.09	6.7
43-013	CREEK CHUB	G	T	N	N	83	166.0	47.70	1610	51.60	9.7
43-044	CENTRAL STONEROLLER	H		N	N	64	128.0	36.78	710	22.76	5.5
77-008	GREEN SUNFISH	I	T	C	S	11	22.0	6.32	500	16.03	22.7

**No Species:** 5      **Nat. Species:** 5      **Hybrids:** 0      **Total Counted:** 174      **Total Rel. Wt. :** 3120

**IBI:** 32.0      **MIwb:** N/A



# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM64    River: 11-074    Trib to NBr Scyamore Cr @ RM0.75    RM: 1.40    Date: 08/28/2012

Time Fished: 2447    Distance: 0.150    Drainge (sq mi): 0.5    Depth: 0

Location: Ust. Bike path    Lat: 39.24045    Long: -84.34632

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-013	CREEK CHUB	G	T	N	N	188	376.0	100.00	1390	100.00	3.7

**No Species:** 1    **Nat. Species:** 1    **Hybrids:** 0    **Total Counted:** 188    **Total Rel. Wt. :** 1390

**IBI:** 16.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM80    River: 11-075    Trib to Duck Creek @ RM 4.8    RM: 0.20    Date: 08/15/2012

Time Fished: 0    Distance: 0.150    Drainge (sq mi): 1.4    Depth: 0

Location: Dst. Kennedy Ave.    Lat: 39.16710    Long: -84.41972

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
77-008	GREEN SUNFISH	I	T	C	S	9	18.0	100.00	30	100.00	1.6

**No Species:** 1    **Nat. Species:** 1    **Hybrids:** 0    **Total Counted:** 9    **Total Rel. Wt. :** 30

**IBI:** 12.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM83    River: 11-075    Trib to Duck Creek @ RM 4.8    RM: 0.80    Date: 08/02/2012  
 Time Fished: 0    Distance: 0.150    Drainge (sq mi): 1.2    Depth: 0  
 Location: RM 0.8    Lat: 39.17404    Long: -84.42355

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 1    **Nat. Species:** 1    **Hybrids:** 0    **Total Counted:** 0    **Total Rel. Wt. :** 0  
**IBI:** -9.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM92 River: 11-076 Little Duck Creek RM: 0.20 Date: 08/09/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 1.7 Depth: 0  
 Location: RM 0.2 Lat: 39.13586 Long: -84.40015

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 1      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 0      **Total Rel. Wt. :** 0  
**IBI:** -9.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM91 River: 11-076 Little Duck Creek RM: 1.00 Date: 08/02/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 0.0 Depth: 0  
 Location: Lat: 0.00000 Long: 0.00000

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 1      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 0      **Total Rel. Wt. :** 0  
**IBI:** -9.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM89 River: 11-076 Little Duck Creek RM: 1.40 Date: 08/09/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 1.1 Depth: 0  
 Location: at Watterson Rd. Lat: 39.14701 Long: -84.39137

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	7	14.0	0.75	520	10.14	37.1
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	30	60.0	3.23	140	2.73	2.3
43-013	CREEK CHUB	G	T	N	N	640	1280.0	68.82	2560	49.90	2.0
43-044	CENTRAL STONEROLLER	H		N	N	248	496.0	26.67	1890	36.84	3.8
77-008	GREEN SUNFISH	I	T	C	S	5	10.0	0.54	20	0.39	2.0
<b>No Species: 5</b>		<b>Nat. Species: 5</b>		<b>Hybrids: 0</b>		<b>Total Counted: 930</b>		<b>Total Rel. Wt. :</b>		<b>5130</b>	
<b>IBI: 30.0</b>		<b>MIwb: N/A</b>									

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM88    River: 11-076    Little Duck Creek    RM: 1.80    Date: 08/09/2012

Time Fished: 0    Distance: 0.150    Drainge (sq mi): 0.8    Depth: 0

Location: RM 1.8    Lat: 39.15100    Long: -84.38855

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 1    **Nat. Species:** 1    **Hybrids:** 0    **Total Counted:** 0    **Total Rel. Wt. :** 0

**IBI:** -9.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM90 River: 11-076 Little Duck Creek RM: 2.40 Date: 08/09/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 0.5 Depth: 0  
 Location: at Settle Rd. Lat: 39.15639 Long: -84.38515

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	1	2.0	0.13	100	1.78	50.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	194	388.0	26.11	740	13.17	1.9
43-013	CREEK CHUB	G	T	N	N	351	702.0	47.24	3720	66.19	5.3
43-044	CENTRAL STONEROLLER	H		N	N	197	394.0	26.51	1060	18.86	2.6

**No Species:** 4      **Nat. Species:** 4      **Hybrids:** 0      **Total Counted:** 743      **Total Rel. Wt. :** 5620  
**IBI:** 34.0      **MIwb:** N/A



# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM87 River: 11-076 Little Duck Creek RM: 2.60 Date: 08/09/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 0.5 Depth: 0  
 Location: at Plainville Rd. Lat: 39.15843 Long: -84.38071

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	10	20.0	2.13	800	16.53	40.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	145	290.0	30.85	580	11.98	2.0
43-013	CREEK CHUB	G	T	N	N	192	384.0	40.85	2800	57.85	7.2
43-044	CENTRAL STONEROLLER	H		N	N	123	246.0	26.17	660	13.64	2.6
<b>No Species:</b> 4		<b>Nat. Species:</b> 4		<b>Hybrids:</b> 0		<b>Total Counted:</b> 470		<b>Total Rel. Wt. :</b>		4840	
<b>IBI:</b> 34.0		<b>MIwb:</b> N/A									

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM86 River: 11-076 Little Duck Creek RM: 2.70 Date: 08/16/2012  
 Time Fished: 0 Distance: 0.150 Drainge (sq mi): 0.4 Depth: 0  
 Location: at Madison Rd. Lat: 39.16003 Long: -84.38106

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	O	T	S	W	1	2.0	0.11	40	1.14	20.0
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	390	780.0	43.14	620	17.61	0.7
43-013	CREEK CHUB	G	T	N	N	353	706.0	39.05	2120	60.23	3.0
43-044	CENTRAL STONEROLLER	H		N	N	160	320.0	17.70	740	21.02	2.3
<b>No Species:</b> 4		<b>Nat. Species:</b> 4		<b>Hybrids:</b> 0		<b>Total Counted:</b> 904		<b>Total Rel. Wt. :</b>		3520	
<b>IBI:</b> 34.0		<b>MIwb:</b> N/A									

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM82    River: 11-077    Trib to Little Duck Cr. @ RM 4.42    RM: 0.10    Date: 08/15/2012  
 Time Fished: 0    Distance: 0.150    Drainge (sq mi): 1.4    Depth: 0  
 Location: RM 0.1    Lat: 39.18326    Long: -84.37000

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 1    **Nat. Species:** 1    **Hybrids:** 0    **Total Counted:** 0    **Total Rel. Wt. :** 0  
**IBI:** -9.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM93    River: 11-078    Trib to McCullough Run @ RM 1.08    RM: 1.50    Date: 08/16/2012

Time Fished: 0    Distance: 0.150    Drainge (sq mi): 0.9    Depth: 0

Location: at Ragland Rd.    Lat: 39.11579    Long: -84.35843

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	95	190.0	34.67	320	13.84	1.6
43-013	CREEK CHUB	G	T	N	N	105	210.0	38.32	1400	60.55	6.6
43-043	BLUNTNOSE MINNOW	O	T	C	N	1	2.0	0.36	4	0.17	2.0
43-044	CENTRAL STONEROLLER	H		N	N	46	92.0	16.79	340	14.71	3.7
77-008	GREEN SUNFISH	I	T	C	S	4	8.0	1.46	120	5.19	15.0
80-022	RAINBOW DARTER	I	M	S	D	22	44.0	8.03	120	5.19	2.7
80-024	FANTAIL DARTER	I		C	D	1	2.0	0.36	8	0.35	4.0

**No Species:** 7    **Nat. Species:** 7    **Hybrids:** 0    **Total Counted:** 274    **Total Rel. Wt. :** 2312

**IBI:** 46.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM101    River: 11-079    Trib to Clough Creek at RM3.06    RM: 1.05    Date: 08/28/2012  
 Time Fished: 0    Distance: 0.150    Drainge (sq mi): 0.7    Depth: 0  
 Location: at Paddison Rd.    Lat: 39.08101    Long: -84.36864

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-011	WESTERN BLACKNOSE DACE	G	T	S	N	23	46.0	19.01	120	9.02	2.6
43-013	CREEK CHUB	G	T	N	N	98	196.0	80.99	1210	90.98	6.1

**No Species:** 2    **Nat. Species:** 2    **Hybrids:** 0    **Total Counted:** 121    **Total Rel. Wt. :** 1330  
**IBI:** 24.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM102 River: 11-080 Trib RM0.66 to Trib Clough Cr RM 3.06 RM: 0.20 Date: 08/30/2012

Time Fished: 0 Distance: 0.150 Drainge (sq mi): 1.1 Depth: 0

Location: RM 0.2 Lat: 39.08561 Long: -84.37340

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 1      **Nat. Species:** 1      **Hybrids:** 0      **Total Counted:** 0      **Total Rel. Wt. :** 0  
**IBI:** -9.0      **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM100 River: 11-081 Trib RM0.95 to Trib to Clough Cr RM: 0.20 Date: 08/28/2012  
 Time Fished: Distance: RM3.06 Drainge (sq mi): Depth:  
 Location: 0 0.150 Lat: 0.9 Long: 0  
 Ust. Robinway Dr. 39.08279 -84.36616

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-003	GOLDEN SHINER	I	T	M	N	1	2.0	0.56	8	0.44	4.0
43-013	CREEK CHUB	G	T	N	N	111	222.0	62.36	1400	77.43	6.3
43-042	FATHEAD MINNOW	O	T	C	N	16	32.0	8.99	40	2.21	1.2
43-044	CENTRAL STONEROLLER	H		N	N	11	22.0	6.18	160	8.85	7.2
77-008	GREEN SUNFISH	I	T	C	S	39	78.0	21.91	200	11.06	2.5

**No Species:** 5    **Nat. Species:** 5    **Hybrids:** 0    **Total Counted:** 178    **Total Rel. Wt. :** 1808  
**IBI:** 24.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM23    River: 11-082    Trib to LMR at RM 24.06    RM: 0.20    Date: 08/14/2012  
 Time Fished: 0    Distance: 0.150    Drainge (sq mi): 1.6    Depth: 0  
 Location: RM 0.2    Lat: 39.27150    Long: -84.26401

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 1    **Nat. Species:** 1    **Hybrids:** 0    **Total Counted:** 0    **Total Rel. Wt. :** 0  
**IBI:** -9.0    **MIwb:** N/A



# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM24    River: 11-083    Trib to LMR at RM 21.82    RM: 0.10    Date: 08/29/2012  
 Time Fished: 0    Distance: 0.150    Drainge (sq mi): 0.8    Depth: 0  
 Location: RM 0.1    Lat: 39.25155    Long: -84.29015

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****

**No Species:** 1    **Nat. Species:** 1    **Hybrids:** 0    **Total Counted:** 0    **Total Rel. Wt. :** 0  
**IBI:** -9.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM62    River: 11-084    Trib to NBr. Sycamore Cr @ RM 2.33    RM: 1.80    Date: 08/28/2012

Time Fished: 0    Distance: 0.150    Drainge (sq mi): 0.6    Depth: 0

Location: Cincinnati Christian Academy    Lat: 39.26974    Long: -84.33316

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-013	CREEK CHUB	G	T	N	N	220	440.0	100.00	2108	100.00	4.7

**No Species:** 1    **Nat. Species:** 1    **Hybrids:** 0    **Total Counted:** 220    **Total Rel. Wt. :** 2108

**IBI:** 20.0    **MIwb:** N/A

# Appendix A-5. Midwest Biodiversity Institute Fish Species List

Site ID: LM22 River: 11-085 Trib to LMR at RM 13.8 RM: 0.30 Date: 08/14/2012  
 Time Fished: 0 Distance: 0.000 Drainge (sq mi): 1.2 Depth: 0  
 Location: Across road from Indian Hill Public Works; horse trail to Creek Lat: 39.18450 Long: -84.29354

Species Code:	Species Name:	Feed Guild	Toler-ance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
99-997						0	0.0	***.**	0	0.00	*****.*

**No Species:** 1    **Nat. Species:** 1    **Hybrids:** 0    **Total Counted:** 0    **Total Rel. Wt. :** 0  
**IBI:** -9.0    **MIwb:** N/A



# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM36 River: 11-100 East Fork Little Miami River RM: 0.70 Date: 08/15/2012

Time Fished: 2361 Distance: 0.500 Drainge (sq mi): 499.0 Depth: 0

Location: Dst. S. Milford Rd. Lat: 39.16329 Long: -84.26286

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	2.0	0.40	60	0.04	30.0
20-003	GIZZARD SHAD	O		M		133	266.0	53.20	43200	29.24	162.4
40-004	SMALLMOUTH BUFFALO	I		M	C	28	56.0	11.20	56100	37.97	1001.7
40-005	QUILLBACK CARPSUCKER	O		M	C	4	8.0	1.60	7200	4.87	900.0
40-006	RIVER CARPSUCKER	O		M	C	1	2.0	0.40	800	0.54	400.0
40-007	HIGHFIN CARPSUCKER	O		M	C	2	4.0	0.80	1440	0.97	360.0
40-008	SILVER REDHORSE	I	M	S	R	4	8.0	1.60	6400	4.33	800.0
40-010	GOLDEN REDHORSE	I	M	S	R	6	12.0	2.40	4400	2.98	366.6
40-023	SMALLMOUTH REDHORSE	I	M	S	R	1	2.0	0.40	20	0.01	10.0
43-001	COMMON CARP	O	T	M	G	3	6.0	1.20	13800	9.34	2300.0
43-020	EMERALD SHINER	I		M	N	32	64.0	12.80	80	0.05	1.2
43-043	BLUNTNOSE MINNOW	O	T	C	N	2	4.0	0.80	12	0.01	3.0
47-002	CHANNEL CATFISH			C	F	2	4.0	0.80	5200	3.52	1300.0
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	0.40	400	0.27	200.0
74-001	WHITE BASS	P		M	F	1	2.0	0.40	60	0.04	30.0
77-001	WHITE CRAPPIE	I		C	S	1	2.0	0.40	80	0.05	40.0
77-002	BLACK CRAPPIE	I		C	S	1	2.0	0.40	260	0.18	130.0
77-004	SMALLMOUTH BASS	C	M	C	F	1	2.0	0.40	300	0.20	150.0
77-005	SPOTTED BASS	C		C	F	3	6.0	1.20	20	0.01	3.3
77-006	LARGEMOUTH BASS	C		C	F	3	6.0	1.20	480	0.32	80.0
77-008	GREEN SUNFISH	I	T	C	S	3	6.0	1.20	100	0.07	16.6
77-009	BLUEGILL SUNFISH	I	P	C	S	2	4.0	0.80	220	0.15	55.0
77-011	LONGEAR SUNFISH	I	M	C	S	9	18.0	3.60	340	0.23	18.8
80-001	SAUGER	P		S	F	1	2.0	0.40	2000	1.35	1000.0
85-001	FRESHWATER DRUM		P	M		5	10.0	2.00	4780	3.24	478.0

**No Species:** 25    **Nat. Species:** 24    **Hybrids:** 0    **Total Counted:** 250    **Total Rel. Wt. :** 147752

**IBI:** 38.0    **MIwb:** 9.2

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM36 River: 11-100 East Fork Little Miami River RM: 0.70 Date: 10/02/2012  
 Time Fished: 2046 Distance: 0.500 Drainge (sq mi): 499.0 Depth: 0  
 Location: Dst. S. Milford Rd. Lat: 39.16329 Long: -84.26286

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		73	146.0	32.30	15760	19.50	107.9
40-004	SMALLMOUTH BUFFALO	I		M	C	16	32.0	7.08	21840	27.03	682.5
40-005	QUILLBACK CARPSUCKER	O		M	C	4	8.0	1.77	8100	10.02	1012.5
40-010	GOLDEN REDHORSE	I	M	S	R	4	8.0	1.77	3060	3.79	382.5
40-013	RIVER REDHORSE	I	I	S	R	1	2.0	0.44	3500	4.33	1750.0
43-001	COMMON CARP	O	T	M	G	5	10.0	2.21	20900	25.87	2090.0
43-020	EMERALD SHINER	I		M	N	46	92.0	20.35	70	0.09	0.7
43-034	SAND SHINER	I	M	M	N	2	4.0	0.88	8	0.01	2.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	22	44.0	9.73	40	0.05	0.9
77-001	WHITE CRAPPIE	I		C	S	1	2.0	0.44	200	0.25	100.0
77-005	SPOTTED BASS	C		C	F	12	24.0	5.31	1870	2.31	77.9
77-006	LARGEMOUTH BASS	C		C	F	3	6.0	1.33	332	0.41	55.3
77-009	BLUEGILL SUNFISH	I	P	C	S	1	2.0	0.44	40	0.05	20.0
77-011	LONGEAR SUNFISH	I	M	C	S	20	40.0	8.85	464	0.57	11.6
80-001	SAUGER	P		S	F	1	2.0	0.44	440	0.54	220.0
85-001	FRESHWATER DRUM		P	M		15	30.0	6.64	4180	5.17	139.3

**No Species:** 16    **Nat. Species:** 15    **Hybrids:** 0    **Total Counted:** 226    **Total Rel. Wt. :** 80804  
**IBI:** 32.0    **MIwb:** 9.0

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM35 River: 11-100 East Fork Little Miami River RM: 1.00 Date: 08/15/2012  
 Time Fished: 2085 Distance: 0.500 Drainge (sq mi): 498.0 Depth: 0  
 Location: Dst. Milford WWTP Lat: 39.15940 Long: -84.28530

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	2.0	0.23	1100	1.01	550.0
20-003	GIZZARD SHAD	O		M		147	294.0	33.18	51400	47.19	174.8
40-004	SMALLMOUTH BUFFALO	I		M	C	5	10.0	1.13	12700	11.66	1270.0
40-005	QUILLBACK CARPSUCKER	O		M	C	5	10.0	1.13	9400	8.63	940.0
40-007	HIGHFIN CARPSUCKER	O		M	C	1	2.0	0.23	1400	1.29	700.0
40-008	SILVER REDHORSE	I	M	S	R	4	8.0	0.90	11800	10.83	1475.0
40-010	GOLDEN REDHORSE	I	M	S	R	21	42.0	4.74	7520	6.90	179.0
40-011	SHORTHEAD REDHORSE	I	M	S	R	1	2.0	0.23	1000	0.92	500.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	5	10.0	1.13	980	0.90	98.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	1	2.0	0.23	160	0.15	80.0
43-001	COMMON CARP	O	T	M	G	1	2.0	0.23	1100	1.01	550.0
43-020	EMERALD SHINER	I		M	N	149	298.0	33.63	318	0.29	1.0
43-032	SPOTFIN SHINER	I		M	N	5	10.0	1.13	74	0.07	7.4
43-034	SAND SHINER	I	M	M	N	7	14.0	1.58	28	0.03	2.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	9	18.0	2.03	40	0.04	2.2
43-044	CENTRAL STONEROLLER	H		N	N	15	30.0	3.39	120	0.11	4.0
47-002	CHANNEL CATFISH			C	F	1	2.0	0.23	1600	1.47	800.0
47-008	STONECAT MADTOM	I	I	C		1	2.0	0.23	20	0.02	10.0
74-001	WHITE BASS	P		M	F	3	6.0	0.68	60	0.06	10.0
77-002	BLACK CRAPPIE	I		C	S	1	2.0	0.23	60	0.06	30.0
77-004	SMALLMOUTH BASS	C	M	C	F	1	2.0	0.23	320	0.29	160.0
77-005	SPOTTED BASS	C		C	F	12	24.0	2.71	520	0.48	21.6
77-006	LARGEMOUTH BASS	C		C	F	1	2.0	0.23	300	0.28	150.0
77-008	GREEN SUNFISH	I	T	C	S	2	4.0	0.45	60	0.06	15.0
77-009	BLUEGILL SUNFISH	I	P	C	S	1	2.0	0.23	60	0.06	30.0
77-011	LONGEAR SUNFISH	I	M	C	S	10	20.0	2.26	280	0.26	14.0
80-001	SAUGER	P		S	F	1	2.0	0.23	500	0.46	250.0
80-007	SLENDERHEAD DARTER	I	R	S	D	4	8.0	0.90	32	0.03	4.0
80-011	LOGPERCH	I	M	S	D	1	2.0	0.23	80	0.07	40.0
80-015	GREENSIDE DARTER	I	M	S	D	5	10.0	1.13	20	0.02	2.0
80-016	BANDED DARTER	I	I	S	D	11	22.0	2.48	20	0.02	0.9
80-026	SAUGER X WALLEYE	P			E	1	2.0	0.23	400	0.37	200.0
85-001	FRESHWATER DRUM		P	M		10	20.0	2.26	5460	5.01	273.0

**No Species:** 32    **Nat. Species:** 31    **Hybrids:** 1    **Total Counted:** 443    **Total Rel. Wt. :** 108932

**IBI:** 40.0    **MIwb:** 9.6

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM35 River: 11-100 East Fork Little Miami River RM: 1.00 Date: 10/02/2012  
 Time Fished: 1988 Distance: 0.500 Drainge (sq mi): 498.0 Depth: 0  
 Location: Dst. Milford WWTP Lat: 39.15940 Long: -84.28530

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		4	8.0	1.10	2180	1.43	272.5
20-003	GIZZARD SHAD	O		M		255	510.0	70.25	39220	25.69	76.9
40-004	SMALLMOUTH BUFFALO	I		M	C	13	26.0	3.58	34200	22.40	1315.3
40-005	QUILLBACK CARPSUCKER	O		M	C	3	6.0	0.83	4900	3.21	816.6
40-006	RIVER CARPSUCKER	O		M	C	2	4.0	0.55	3500	2.29	875.0
40-007	HIGHFIN CARPSUCKER	O		M	C	3	6.0	0.83	3300	2.16	550.0
40-008	SILVER REDHORSE	I	M	S	R	5	10.0	1.38	18500	12.12	1850.0
40-010	GOLDEN REDHORSE	I	M	S	R	6	12.0	1.65	3760	2.46	313.3
40-013	RIVER REDHORSE	I	I	S	R	1	2.0	0.28	4400	2.88	2200.0
43-001	COMMON CARP	O	T	M	G	3	6.0	0.83	16700	10.94	2783.3
43-020	EMERALD SHINER	I		M	N	21	42.0	5.79	44	0.03	1.0
43-034	SAND SHINER	I	M	M	N	1	2.0	0.28	4	0.00	2.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	6	12.0	1.65	24	0.02	2.0
47-002	CHANNEL CATFISH			C	F	7	14.0	1.93	16700	10.94	1192.8
47-007	FLATHEAD CATFISH	P		C	F	1	2.0	0.28	400	0.26	200.0
74-001	WHITE BASS	P		M	F	1	2.0	0.28	20	0.01	10.0
77-001	WHITE CRAPPIE	I		C	S	1	2.0	0.28	200	0.13	100.0
77-004	SMALLMOUTH BASS	C	M	C	F	1	2.0	0.28	60	0.04	30.0
77-005	SPOTTED BASS	C		C	F	4	8.0	1.10	280	0.18	35.0
77-008	GREEN SUNFISH	I	T	C	S	1	2.0	0.28	60	0.04	30.0
77-009	BLUEGILL SUNFISH	I	P	C	S	1	2.0	0.28	80	0.05	40.0
77-011	LONGEAR SUNFISH	I	M	C	S	8	16.0	2.20	114	0.07	7.1
80-001	SAUGER	P		S	F	2	4.0	0.55	1000	0.65	250.0
80-026	SAUGER X WALLEYE	P			E	1	2.0	0.28	500	0.33	250.0
85-001	FRESHWATER DRUM		P	M		12	24.0	3.31	2540	1.66	105.8

**No Species:** 24    **Nat. Species:** 23    **Hybrids:** 1    **Total Counted:** 363    **Total Rel. Wt. :** 152686  
**IBI:** 36.0    **MIwb:** 9.2



# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM34 River: 11-100 East Fork Little Miami River RM: 2.00 Date: 08/15/2012  
 Time Fished: 2251 Distance: 0.500 Drainge (sq mi): 494.0 Depth: 0  
 Location: E. FK. LMR S OF MILFORD - 0.7 MI. DST I-275 Lat: 39.15472 Long: 84.27833

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		2	4.0	0.63	3300	1.75	825.0
20-003	GIZZARD SHAD	O		M		103	206.0	32.70	17820	9.45	86.5
40-004	SMALLMOUTH BUFFALO	I		M	C	34	68.0	10.79	84300	44.70	1239.7
40-005	QUILLBACK CARPSUCKER	O		M	C	6	12.0	1.90	11400	6.04	950.0
40-006	RIVER CARPSUCKER	O		M	C	3	6.0	0.95	4900	2.60	816.6
40-008	SILVER REDHORSE	I	M	S	R	6	12.0	1.90	18100	9.60	1508.3
40-009	BLACK REDHORSE	I	I	S	R	1	2.0	0.32	200	0.11	100.0
40-010	GOLDEN REDHORSE	I	M	S	R	31	62.0	9.84	12760	6.77	205.8
40-015	NORTHERN HOG SUCKER	I	M	S	R	10	20.0	3.17	3220	1.71	161.0
43-001	COMMON CARP	O	T	M	G	6	12.0	1.90	17800	9.44	1483.3
43-020	EMERALD SHINER	I		M	N	52	104.0	16.51	180	0.10	1.7
43-032	SPOTFIN SHINER	I		M	N	6	12.0	1.90	60	0.03	5.0
47-002	CHANNEL CATFISH			C	F	6	12.0	1.90	5920	3.14	493.3
74-001	WHITE BASS	P		M	F	2	4.0	0.63	100	0.05	25.0
77-001	WHITE CRAPPIE	I		C	S	1	2.0	0.32	20	0.01	10.0
77-002	BLACK CRAPPIE	I		C	S	2	4.0	0.63	100	0.05	25.0
77-004	SMALLMOUTH BASS	C	M	C	F	9	18.0	2.86	576	0.31	32.0
77-005	SPOTTED BASS	C		C	F	1	2.0	0.32	100	0.05	50.0
77-008	GREEN SUNFISH	I	T	C	S	1	2.0	0.32	20	0.01	10.0
77-009	BLUEGILL SUNFISH	I	P	C	S	5	10.0	1.59	320	0.17	32.0
77-011	LONGEAR SUNFISH	I	M	C	S	18	36.0	5.71	590	0.31	16.3
85-001	FRESHWATER DRUM		P	M		10	20.0	3.17	6820	3.62	341.0

**No Species:** 22    **Nat. Species:** 21    **Hybrids:** 0    **Total Counted:** 315    **Total Rel. Wt. :** 188606

**IBI:** 38.0    **MIwb:** 9.9

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM34 River: 11-100 East Fork Little Miami River RM: 2.00 Date: 10/02/2012  
 Time Fished: 2205 Distance: 0.500 Drainge (sq mi): 494.0 Depth: 0  
 Location: E. FK. LMR S OF MILFORD - 0.7 MI. DST I-275 Lat: 39.15472 Long: 84.27833

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-001	SKIPJACK HERRING	P		M		1	2.0	0.38	160	0.15	80.0
20-003	GIZZARD SHAD	O		M		105	210.0	40.38	16240	15.56	77.3
40-004	SMALLMOUTH BUFFALO	I		M	C	14	28.0	5.38	31800	30.48	1135.7
40-005	QUILLBACK CARPSUCKER	O		M	C	6	12.0	2.31	9700	9.30	808.3
40-006	RIVER CARPSUCKER	O		M	C	1	2.0	0.38	2200	2.11	1100.0
40-008	SILVER REDHORSE	I	M	S	R	2	4.0	0.77	3420	3.28	855.0
40-010	GOLDEN REDHORSE	I	M	S	R	25	50.0	9.62	17740	17.00	354.8
40-015	NORTHERN HOG SUCKER	I	M	S	R	1	2.0	0.38	240	0.23	120.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	1	2.0	0.38	660	0.63	330.0
43-001	COMMON CARP	O	T	M	G	5	10.0	1.92	17410	16.68	1741.0
43-020	EMERALD SHINER	I		M	N	65	130.0	25.00	154	0.15	1.1
43-043	BLUNTNOSE MINNOW	O	T	C	N	1	2.0	0.38	12	0.01	6.0
47-002	CHANNEL CATFISH			C	F	3	6.0	1.15	2240	2.15	373.3
70-001	BROOK SILVERSIDE	I	M	M		1	2.0	0.38	4	0.00	2.0
74-001	WHITE BASS	P		M	F	1	2.0	0.38	120	0.12	60.0
77-004	SMALLMOUTH BASS	C	M	C	F	1	2.0	0.38	320	0.31	160.0
77-006	LARGEMOUTH BASS	C		C	F	9	18.0	3.46	830	0.80	46.1
77-011	LONGEAR SUNFISH	I	M	C	S	7	14.0	2.69	136	0.13	9.7
85-001	FRESHWATER DRUM		P	M		11	22.0	4.23	960	0.92	43.6

**No Species:** 19    **Nat. Species:** 18    **Hybrids:** 0    **Total Counted:** 260    **Total Rel. Wt. :** 104346  
**IBI:** 32.0    **MIwb:** 9.1

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM32 River: 11-100 East Fork Little Miami River RM: 4.30 Date: 08/16/2012  
 Time Fished: 2055 Distance: 0.200 Drainge (sq mi): 491.0 Depth: 0  
 Location: E. FK. LMR AT MILFORD MHP ADJ U.S. RT. 50 Lat: 39.15472 Long: 84.25889

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-001	SKIPJACK HERRING	P		M		2	3.0	0.78	97	0.14	32.5
20-003	GIZZARD SHAD	O		M		21	31.5	8.14	1815	2.68	57.6
40-004	SMALLMOUTH BUFFALO	I		M	C	3	4.5	1.16	8100	11.94	1800.0
40-008	SILVER REDHORSE	I	M	S	R	3	4.5	1.16	5850	8.63	1300.0
40-010	GOLDEN REDHORSE	I	M	S	R	31	46.5	12.02	10338	15.25	222.3
40-015	NORTHERN HOG SUCKER	I	M	S	R	1	1.5	0.39	225	0.33	150.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	1	1.5	0.39	585	0.86	390.0
43-001	COMMON CARP	O	T	M	G	3	4.5	1.16	10425	15.37	2316.6
43-020	EMERALD SHINER	I		M	N	112	168.0	43.41	285	0.42	1.7
43-032	SPOTFIN SHINER	I		M	N	4	6.0	1.55	33	0.05	5.5
43-043	BLUNTNOSE MINNOW	O	T	C	N	7	10.5	2.71	22	0.03	2.1
47-002	CHANNEL CATFISH			C	F	5	7.5	1.94	480	0.71	64.0
47-007	FLATHEAD CATFISH	P		C	F	3	4.5	1.16	25080	36.98	5573.3
74-002	STRIPED BASS	P		M	E	1	1.5	0.39	750	1.11	500.0
77-002	BLACK CRAPPIE	I		C	S	1	1.5	0.39	75	0.11	50.0
77-004	SMALLMOUTH BASS	C	M	C	F	7	10.5	2.71	345	0.51	32.8
77-005	SPOTTED BASS	C		C	F	16	24.0	6.20	795	1.17	33.1
77-006	LARGEMOUTH BASS	C		C	F	5	7.5	1.94	180	0.27	24.0
77-008	GREEN SUNFISH	I	T	C	S	1	1.5	0.39	15	0.02	10.0
77-009	BLUEGILL SUNFISH	I	P	C	S	5	7.5	1.94	120	0.18	16.0
77-011	LONGEAR SUNFISH	I	M	C	S	17	25.5	6.59	438	0.65	17.1
80-007	SLENDERHEAD DARTER	I	R	S	D	1	1.5	0.39	3	0.00	2.0
80-026	SAUGER X WALLEYE	P			E	1	1.5	0.39	90	0.13	60.0
85-001	FRESHWATER DRUM		P	M		7	10.5	2.71	1665	2.46	158.5

**No Species:** 23    **Nat. Species:** 21    **Hybrids:** 1    **Total Counted:** 258    **Total Rel. Wt. :** 67812  
**IBI:** 42.0    **MIwb:** 8.9

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM32 River: 11-100 East Fork Little Miami River RM: 4.30 Date: 10/04/2012

Time Fished: 2242 Distance: 0.200 Drainge (sq mi): 491.0 Depth: 0

Location: E. FK. LMR AT MILFORD MHP ADJ U.S. RT. 50 Lat: 39.15472 Long: 84.25889

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		7	10.5	1.04	1260	7.03	120.0
40-004	SMALLMOUTH BUFFALO	I		M	C	2	3.0	0.30	4650	25.95	1550.0
40-007	HIGHFIN CARPSUCKER	O		M	C	4	6.0	0.60	2595	14.48	432.5
40-010	GOLDEN REDHORSE	I	M	S	R	3	4.5	0.45	210	1.17	46.6
40-015	NORTHERN HOG SUCKER	I	M	S	R	2	3.0	0.30	270	1.51	90.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	1	1.5	0.15	180	1.00	120.0
43-020	EMERALD SHINER	I		M	N	432	648.0	64.29	844	4.71	1.3
43-032	SPOTFIN SHINER	I		M	N	5	7.5	0.74	22	0.13	3.0
43-034	SAND SHINER	I	M	M	N	31	46.5	4.61	43	0.24	0.9
43-035	MIMIC SHINER	I	I	M	N	7	10.5	1.04	9	0.05	0.8
43-039	SILVERJAW MINNOW	I		M	N	1	1.5	0.15	4	0.03	3.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	83	124.5	12.35	171	0.95	1.3
47-002	CHANNEL CATFISH			C	F	1	1.5	0.15	1875	10.46	1250.0
77-004	SMALLMOUTH BASS	C	M	C	F	4	6.0	0.60	180	1.00	30.0
77-005	SPOTTED BASS	C		C	F	20	30.0	2.98	142	0.80	4.7
77-006	LARGEMOUTH BASS	C		C	F	1	1.5	0.15	105	0.59	70.0
77-009	BLUEGILL SUNFISH	I	P	C	S	3	4.5	0.45	21	0.12	4.6
77-011	LONGEAR SUNFISH	I	M	C	S	59	88.5	8.78	651	3.63	7.3
77-012	REDEAR SUNFISH	I		C	E	1	1.5	0.15	150	0.84	100.0
80-011	LOGPERCH	I	M	S	D	2	3.0	0.30	75	0.42	25.0
85-001	FRESHWATER DRUM		P	M		3	4.5	0.45	4462	24.90	991.6

**No Species:** 21    **Nat. Species:** 20    **Hybrids:** 0    **Total Counted:** 672    **Total Rel. Wt. :** 17922

**IBI:** 40.0    **MIwb:** 8.3

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM31 River: 11-100 East Fork Little Miami River RM: 5.60 Date: 08/16/2012  
 Time Fished: 2014 Distance: 0.200 Drainge (sq mi): 485.0 Depth: 0  
 Location: E. FK. LMR ADJ U.S. RT. 50 DST WOLFPEN RUN Lat: 39.14278 Long: 84.25000

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	1.5	0.62	1650	2.33	1100.0
20-003	GIZZARD SHAD	O		M		29	43.5	17.90	5730	8.08	131.7
40-004	SMALLMOUTH BUFFALO	I		M	C	15	22.5	9.26	27000	38.05	1200.0
40-005	QUILLBACK CARPSUCKER	O		M	C	2	3.0	1.23	1725	2.43	575.0
40-007	HIGHFIN CARPSUCKER	O		M	C	1	1.5	0.62	900	1.27	600.0
40-008	SILVER REDHORSE	I	M	S	R	2	3.0	1.23	5175	7.29	1725.0
40-010	GOLDEN REDHORSE	I	M	S	R	10	15.0	6.17	3990	5.62	266.0
40-011	SHORTHEAD REDHORSE	I	M	S	R	7	10.5	4.32	1200	1.69	114.2
40-013	RIVER REDHORSE	I	I	S	R	4	6.0	2.47	7500	10.57	1250.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	2	3.0	1.23	540	0.76	180.0
43-001	COMMON CARP	O	T	M	G	3	4.5	1.85	8025	11.31	1783.3
43-020	EMERALD SHINER	I		M	N	19	28.5	11.73	60	0.08	2.1
43-032	SPOTFIN SHINER	I		M	N	2	3.0	1.23	60	0.08	20.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	4	6.0	2.47	60	0.08	10.0
47-002	CHANNEL CATFISH			C	F	2	3.0	1.23	2145	3.02	715.0
74-001	WHITE BASS	P		M	F	6	9.0	3.70	255	0.36	28.3
77-002	BLACK CRAPPIE	I		C	S	1	1.5	0.62	105	0.15	70.0
77-003	ROCK BASS	C		C	S	1	1.5	0.62	60	0.08	40.0
77-004	SMALLMOUTH BASS	C	M	C	F	3	4.5	1.85	1650	2.33	366.6
77-005	SPOTTED BASS	C		C	F	6	9.0	3.70	90	0.13	10.0
77-008	GREEN SUNFISH	I	T	C	S	2	3.0	1.23	150	0.21	50.0
77-009	BLUEGILL SUNFISH	I	P	C	S	13	19.5	8.02	525	0.74	26.9
77-011	LONGEAR SUNFISH	I	M	C	S	20	30.0	12.35	420	0.59	14.0
80-016	BANDED DARTER	I	I	S	D	1	1.5	0.62	3	0.00	2.0
80-022	RAINBOW DARTER	I	M	S	D	1	1.5	0.62	1	0.00	1.0
85-001	FRESHWATER DRUM		P	M		5	7.5	3.09	1935	2.73	258.0

**No Species:** 26    **Nat. Species:** 25    **Hybrids:** 0    **Total Counted:** 162    **Total Rel. Wt. :** 70954  
**IBI:** 42.0    **MIwb:** 9.7

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM31 River: 11-100 East Fork Little Miami River RM: 5.60 Date: 10/04/2012  
 Time Fished: 0 Distance: 0.200 Drainge (sq mi): 485.0 Depth: 0  
 Location: E. FK. LMR ADJ U.S. RT. 50 DST WOLFPEN RUN Lat: 39.14278 Long: 84.25000

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		20	30.0	7.94	3765	13.32	125.5
40-004	SMALLMOUTH BUFFALO	I		M	C	9	13.5	3.57	17700	62.62	1311.1
40-010	GOLDEN REDHORSE	I	M	S	R	8	12.0	3.17	4065	14.38	338.7
40-023	SMALLMOUTH REDHORSE	I	M	S	R	1	1.5	0.40	30	0.11	20.0
43-020	EMERALD SHINER	I		M	N	79	118.5	31.35	273	0.97	2.3
43-032	SPOTFIN SHINER	I		M	N	8	12.0	3.17	42	0.15	3.5
43-034	SAND SHINER	I	M	M	N	5	7.5	1.98	15	0.05	2.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	36	54.0	14.29	120	0.42	2.2
70-001	BROOK SILVERSIDE	I	M	M		3	4.5	1.19	15	0.05	3.3
77-004	SMALLMOUTH BASS	C	M	C	F	6	9.0	2.38	307	1.09	34.1
77-005	SPOTTED BASS	C		C	F	16	24.0	6.35	393	1.39	16.3
77-008	GREEN SUNFISH	I	T	C	S	1	1.5	0.40	30	0.11	20.0
77-009	BLUEGILL SUNFISH	I	P	C	S	1	1.5	0.40	18	0.06	12.0
77-011	LONGEAR SUNFISH	I	M	C	S	53	79.5	21.03	306	1.08	3.8
80-001	SAUGER	P		S	F	2	3.0	0.79	1050	3.71	350.0
80-011	LOGPERCH	I	M	S	D	3	4.5	1.19	90	0.32	20.0
85-001	FRESHWATER DRUM		P	M		1	1.5	0.40	45	0.16	30.0

**No Species:** 17    **Nat. Species:** 17    **Hybrids:** 0    **Total Counted:** 252    **Total Rel. Wt. :** 28264  
**IBI:** 36.0    **MIwb:** 7.8

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM30 River: 11-100 East Fork Little Miami River RM: 9.10 Date: 08/16/2012

Time Fished: 3420 Distance: 0.200 Drainge (sq mi): 380.0 Depth: 0

Location: Lat: 39.11890 Long: -84.21170

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		3	4.5	0.55	2850	6.78	633.3
20-003	GIZZARD SHAD	O		M		20	30.0	3.66	2145	5.10	71.5
40-010	GOLDEN REDHORSE	I	M	S	R	10	15.0	1.83	5130	12.20	342.0
40-011	SHORTHEAD REDHORSE	I	M	S	R	6	9.0	1.10	2655	6.32	295.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	24	36.0	4.40	5025	11.95	139.5
43-020	EMERALD SHINER	I		M	N	97	145.5	17.77	217	0.52	1.4
43-026	COMMON SHINER	I		S	N	8	12.0	1.47	97	0.23	8.1
43-032	SPOTFIN SHINER	I		M	N	113	169.5	20.70	663	1.58	3.9
43-034	SAND SHINER	I	M	M	N	1	1.5	0.18	3	0.01	2.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	18	27.0	3.30	90	0.21	3.3
43-044	CENTRAL STONEROLLER	H		N	N	68	102.0	12.45	1537	3.66	15.0
47-002	CHANNEL CATFISH			C	F	5	7.5	0.92	2559	6.09	341.2
47-007	FLATHEAD CATFISH	P		C	F	2	3.0	0.37	6	0.01	2.0
47-008	STONECAT MADTOM	I	I	C		7	10.5	1.28	90	0.21	8.5
77-003	ROCK BASS	C		C	S	2	3.0	0.37	45	0.11	15.0
77-004	SMALLMOUTH BASS	C	M	C	F	47	70.5	8.61	3150	7.49	44.6
77-008	GREEN SUNFISH	I	T	C	S	1	1.5	0.18	60	0.14	40.0
77-011	LONGEAR SUNFISH	I	M	C	S	25	37.5	4.58	750	1.78	20.0
80-001	SAUGER	P		S	F	1	1.5	0.18	345	0.82	230.0
80-011	LOGPERCH	I	M	S	D	3	4.5	0.55	90	0.21	20.0
80-015	GREENSIDE DARTER	I	M	S	D	52	78.0	9.52	555	1.32	7.1
80-016	BANDED DARTER	I	I	S	D	16	24.0	2.93	54	0.13	2.2
80-022	RAINBOW DARTER	I	M	S	D	3	4.5	0.55	24	0.06	5.3
80-024	FANTAIL DARTER	I		C	D	2	3.0	0.37	6	0.01	2.0
85-001	FRESHWATER DRUM		P	M		12	18.0	2.20	13890	33.04	771.6

**No Species:** 25    **Nat. Species:** 25    **Hybrids:** 0    **Total Counted:** 546    **Total Rel. Wt. :** 42037

**IBI:** 48.0    **MIwb:** 9.8

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM30 River: 11-100 East Fork Little Miami River RM: 9.10 Date: 10/03/2012

Time Fished: 2523 Distance: 0.200 Drainge (sq mi): 380.0 Depth: 0

Location: Lat: 39.11890 Long: -84.21170

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-004	SMALLMOUTH BUFFALO	I		M	C	1	1.5	0.34	1245	8.26	830.0
40-009	BLACK REDHORSE	I	I	S	R	1	1.5	0.34	120	0.80	80.0
40-010	GOLDEN REDHORSE	I	M	S	R	4	6.0	1.36	2130	14.13	355.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	2	3.0	0.68	375	2.49	125.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	6	9.0	2.03	3780	25.08	420.0
43-020	EMERALD SHINER	I		M	N	83	124.5	28.14	310	2.06	2.4
43-025	STRIPED SHINER	I		S	N	1	1.5	0.34	9	0.06	6.0
43-032	SPOTFIN SHINER	I		M	N	80	120.0	27.12	747	4.96	6.2
43-034	SAND SHINER	I	M	M	N	4	6.0	1.36	12	0.08	2.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	24	36.0	8.14	255	1.69	7.0
43-044	CENTRAL STONEROLLER	H		N	N	37	55.5	12.54	843	5.59	15.1
47-002	CHANNEL CATFISH			C	F	1	1.5	0.34	105	0.70	70.0
47-007	FLATHEAD CATFISH	P		C	F	1	1.5	0.34	12	0.08	8.0
47-008	STONECAT MADTOM	I	I	C		2	3.0	0.68	12	0.08	4.0
77-003	ROCK BASS	C		C	S	1	1.5	0.34	30	0.20	20.0
77-004	SMALLMOUTH BASS	C	M	C	F	22	33.0	7.46	1807	11.99	54.7
77-006	LARGEMOUTH BASS	C		C	F	1	1.5	0.34	187	1.24	125.0
77-011	LONGEAR SUNFISH	I	M	C	S	8	12.0	2.71	90	0.60	7.5
80-011	LOGPERCH	I	M	S	D	1	1.5	0.34	30	0.20	20.0
80-015	GREENSIDE DARTER	I	M	S	D	1	1.5	0.34	9	0.06	6.0
80-022	RAINBOW DARTER	I	M	S	D	13	19.5	4.41	54	0.36	2.7
85-001	FRESHWATER DRUM		P	M		1	1.5	0.34	2910	19.31	1940.0

**No Species:** 22    **Nat. Species:** 22    **Hybrids:** 0    **Total Counted:** 295    **Total Rel. Wt. :** 15073

**IBI:** 38.0    **MIwb:** 8.5



# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM29 River: 11-100 East Fork Little Miami River RM: 11.00 Date: 08/14/2012  
 Time Fished: 2841 Distance: 0.200 Drainge (sq mi): 376.0 Depth: 0  
 Location: Ust. Pull off @ Patchell Rd & Highway 222 Lat: 39.10540 Long: -84.19194

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	1.5	0.15	45	0.14	30.0
20-003	GIZZARD SHAD	O		M		58	87.0	8.44	9375	29.99	107.7
40-006	RIVER CARPSUCKER	O		M	C	1	1.5	0.15	1230	3.94	820.0
40-010	GOLDEN REDHORSE	I	M	S	R	12	18.0	1.75	3795	12.14	210.8
40-011	SHORTHEAD REDHORSE	I	M	S	R	2	3.0	0.29	2595	8.30	865.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	3	4.5	0.44	330	1.06	73.3
43-001	COMMON CARP	O	T	M	G	2	3.0	0.29	4275	13.68	1425.0
43-020	EMERALD SHINER	I		M	N	322	483.0	46.87	534	1.71	1.1
43-032	SPOTFIN SHINER	I		M	N	6	9.0	0.87	21	0.07	2.3
43-034	SAND SHINER	I	M	M	N	12	18.0	1.75	19	0.06	1.0
43-035	MIMIC SHINER	I	I	M	N	2	3.0	0.29	3	0.01	1.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	79	118.5	11.50	180	0.58	1.5
47-002	CHANNEL CATFISH			C	F	2	3.0	0.29	2259	7.23	753.0
47-007	FLATHEAD CATFISH	P		C	F	1	1.5	0.15	6	0.02	4.0
77-002	BLACK CRAPPIE	I		C	S	4	6.0	0.58	214	0.69	35.7
77-003	ROCK BASS	C		C	S	2	3.0	0.29	270	0.86	90.0
77-004	SMALLMOUTH BASS	C	M	C	F	15	22.5	2.18	1128	3.61	50.1
77-005	SPOTTED BASS	C		C	F	2	3.0	0.29	544	1.74	181.5
77-006	LARGEMOUTH BASS	C		C	F	2	3.0	0.29	6	0.02	2.0
77-008	GREEN SUNFISH	I	T	C	S	1	1.5	0.15	24	0.08	16.0
77-009	BLUEGILL SUNFISH	I	P	C	S	14	21.0	2.04	240	0.77	11.4
77-011	LONGEAR SUNFISH	I	M	C	S	110	165.0	16.01	2310	7.39	14.0
77-021	GREEN SF X LONGEAR SF					1	1.5	0.15	30	0.10	20.0
80-007	SLENDERHEAD DARTER	I	R	S	D	2	3.0	0.29	15	0.05	5.0
80-014	JOHNNY DARTER	I		C	D	1	1.5	0.15	1	0.00	1.0
80-015	GREENSIDE DARTER	I	M	S	D	8	12.0	1.16	75	0.24	6.2
80-016	BANDED DARTER	I	I	S	D	7	10.5	1.02	18	0.06	1.7
80-022	RAINBOW DARTER	I	M	S	D	7	10.5	1.02	15	0.05	1.4
80-024	FANTAIL DARTER	I		C	D	5	7.5	0.73	18	0.06	2.4
85-001	FRESHWATER DRUM		P	M		3	4.5	0.44	1680	5.37	373.3

**No Species:** 29    **Nat. Species:** 28    **Hybrids:** 1    **Total Counted:** 687    **Total Rel. Wt. :** 31257  
**IBI:** 44.0    **MIwb:** 9.2

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM29 River: 11-100 East Fork Little Miami River RM: 11.00 Date: 10/04/2012  
 Time Fished: 2424 Distance: 0.200 Drainge (sq mi): 376.0 Depth: 0  
 Location: Ust. Pull off @ Patchell Rd & Highway 222 Lat: 39.10540 Long: -84.19194

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	1.5	0.24	750	2.07	500.0
20-003	GIZZARD SHAD	O		M		23	34.5	5.53	3585	9.91	103.9
40-010	GOLDEN REDHORSE	I	M	S	R	14	21.0	3.37	5325	14.73	253.5
40-013	RIVER REDHORSE	I	I	S	R	1	1.5	0.24	2250	6.22	1500.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	1	1.5	0.24	210	0.58	140.0
40-023	SMALLMOUTH REDHORSE	I	M	S	R	1	1.5	0.24	750	2.07	500.0
43-001	COMMON CARP	O	T	M	G	8	12.0	1.92	20325	56.21	1693.7
43-020	EMERALD SHINER	I		M	N	165	247.5	39.66	322	0.89	1.3
43-032	SPOTFIN SHINER	I		M	N	26	39.0	6.25	105	0.29	2.6
43-034	SAND SHINER	I	M	M	N	14	21.0	3.37	30	0.08	1.4
43-043	BLUNTNOSE MINNOW	O	T	C	N	47	70.5	11.30	124	0.34	1.7
70-001	BROOK SILVERSIDE	I	M	M		5	7.5	1.20	15	0.04	2.0
77-001	WHITE CRAPPIE	I		C	S	1	1.5	0.24	60	0.17	40.0
77-002	BLACK CRAPPIE	I		C	S	1	1.5	0.24	45	0.12	30.0
77-004	SMALLMOUTH BASS	C	M	C	F	15	22.5	3.61	474	1.31	21.0
77-005	SPOTTED BASS	C		C	F	6	9.0	1.44	66	0.18	7.3
77-009	BLUEGILL SUNFISH	I	P	C	S	2	3.0	0.48	22	0.06	7.5
77-011	LONGEAR SUNFISH	I	M	C	S	81	121.5	19.47	1425	3.94	11.7
80-001	SAUGER	P		S	F	1	1.5	0.24	240	0.66	160.0
80-011	LOGPERCH	I	M	S	D	1	1.5	0.24	15	0.04	10.0
80-015	GREENSIDE DARTER	I	M	S	D	1	1.5	0.24	12	0.03	8.0
80-024	FANTAIL DARTER	I		C	D	1	1.5	0.24	6	0.02	4.0

**No Species:** 22    **Nat. Species:** 21    **Hybrids:** 0    **Total Counted:** 416    **Total Rel. Wt. :** 36157  
**IBI:** 38.0    **MIwb:** 8.0

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM28 River: 11-100 East Fork Little Miami River RM: 13.20 Date: 08/14/2012

Time Fished: 2612 Distance: 0.200 Drainge (sq mi): 365.0 Depth: 0

Location: Lat: 39.08440 Long: -84.17810

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		2	3.0	0.56	1875	1.85	625.0
20-003	GIZZARD SHAD	O		M		14	21.0	3.94	2460	2.43	117.1
40-004	SMALLMOUTH BUFFALO	I		M	C	7	10.5	1.97	12075	11.94	1150.0
40-006	RIVER CARPSUCKER	O		M	C	5	7.5	1.41	5250	5.19	700.0
40-008	SILVER REDHORSE	I	M	S	R	2	3.0	0.56	2850	2.82	950.0
40-009	BLACK REDHORSE	I	I	S	R	21	31.5	5.92	12975	12.84	411.9
40-010	GOLDEN REDHORSE	I	M	S	R	23	34.5	6.48	16320	16.14	473.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	5	7.5	1.41	846	0.84	112.8
40-023	SMALLMOUTH REDHORSE	I	M	S	R	11	16.5	3.10	3075	3.04	186.3
43-001	COMMON CARP	O	T	M	G	3	4.5	0.85	8280	8.19	1840.0
43-020	EMERALD SHINER	I		M	N	75	112.5	21.13	123	0.12	1.0
43-032	SPOTFIN SHINER	I		M	N	11	16.5	3.10	57	0.06	3.4
43-043	BLUNTNOSE MINNOW	O	T	C	N	14	21.0	3.94	18	0.02	0.8
43-044	CENTRAL STONEROLLER	H		N	N	4	6.0	1.13	21	0.02	3.5
47-002	CHANNEL CATFISH			C	F	17	25.5	4.79	12678	12.54	497.1
47-007	FLATHEAD CATFISH	P		C	F	2	3.0	0.56	2700	2.67	900.0
74-002	STRIPED BASS	P		M	E	1	1.5	0.28	330	0.33	220.0
77-001	WHITE CRAPPIE	I		C	S	1	1.5	0.28	45	0.04	30.0
77-002	BLACK CRAPPIE	I		C	S	1	1.5	0.28	60	0.06	40.0
77-003	ROCK BASS	C		C	S	4	6.0	1.13	370	0.37	61.7
77-004	SMALLMOUTH BASS	C	M	C	F	14	21.0	3.94	3420	3.38	162.8
77-006	LARGEMOUTH BASS	C		C	F	1	1.5	0.28	3	0.00	2.0
77-008	GREEN SUNFISH	I	T	C	S	7	10.5	1.97	225	0.22	21.4
77-009	BLUEGILL SUNFISH	I	P	C	S	8	12.0	2.25	123	0.12	10.2
77-011	LONGEAR SUNFISH	I	M	C	S	67	100.5	18.87	1887	1.87	18.7
77-021	GREEN SF X LONGEAR SF					1	1.5	0.28	30	0.03	20.0
80-001	SAUGER	P		S	F	3	4.5	0.85	780	0.77	173.3
80-011	LOGPERCH	I	M	S	D	1	1.5	0.28	18	0.02	12.0
80-015	GREENSIDE DARTER	I	M	S	D	7	10.5	1.97	39	0.04	3.7
80-016	BANDED DARTER	I	I	S	D	9	13.5	2.54	33	0.03	2.4
80-026	SAUGER X WALLEYE	P			E	1	1.5	0.28	450	0.45	300.0
85-001	FRESHWATER DRUM		P	M		13	19.5	3.66	11673	11.55	598.6

**No Species:** 30    **Nat. Species:** 28    **Hybrids:** 2    **Total Counted:** 355    **Total Rel. Wt. :** 101089

**IBI:** 46.0    **MIwb:** 10.5

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM28 River: 11-100 East Fork Little Miami River RM: 13.20 Date: 10/04/2012  
 Time Fished: 1872 Distance: 0.200 Drainge (sq mi): 365.0 Depth: 0  
 Location: Lat: 39.08440 Long: -84.17810

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR	P		M		1	1.5	0.47	675	1.98	450.0
20-003	GIZZARD SHAD	O		M		9	13.5	4.25	1110	3.25	82.2
40-004	SMALLMOUTH BUFFALO	I		M	C	1	1.5	0.47	2850	8.34	1900.0
40-005	QUILLBACK CARPSUCKER	O		M	C	1	1.5	0.47	1350	3.95	900.0
40-006	RIVER CARPSUCKER	O		M	C	2	3.0	0.94	2475	7.24	825.0
40-008	SILVER REDHORSE	I	M	S	R	2	3.0	0.94	5100	14.92	1700.0
40-009	BLACK REDHORSE	I	I	S	R	1	1.5	0.47	600	1.76	400.0
40-010	GOLDEN REDHORSE	I	M	S	R	12	18.0	5.66	11100	32.48	616.6
40-015	NORTHERN HOG SUCKER	I	M	S	R	4	6.0	1.89	405	1.19	67.5
40-023	SMALLMOUTH REDHORSE	I	M	S	R	1	1.5	0.47	675	1.98	450.0
43-001	COMMON CARP	O	T	M	G	1	1.5	0.47	4425	12.95	2950.0
43-020	EMERALD SHINER	I		M	N	49	73.5	23.11	186	0.54	2.5
43-032	SPOTFIN SHINER	I		M	N	19	28.5	8.96	76	0.22	2.6
43-034	SAND SHINER	I	M	M	N	1	1.5	0.47	4	0.01	3.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	31	46.5	14.62	129	0.38	2.7
43-044	CENTRAL STONEROLLER	H		N	N	8	12.0	3.77	219	0.64	18.2
70-001	BROOK SILVERSIDE	I	M	M		1	1.5	0.47	3	0.01	2.0
77-002	BLACK CRAPPIE	I		C	S	2	3.0	0.94	75	0.22	25.0
77-003	ROCK BASS	C		C	S	2	3.0	0.94	165	0.48	55.0
77-004	SMALLMOUTH BASS	C	M	C	F	9	13.5	4.25	1335	3.91	98.8
77-008	GREEN SUNFISH	I	T	C	S	1	1.5	0.47	75	0.22	50.0
77-011	LONGEAR SUNFISH	I	M	C	S	47	70.5	22.17	708	2.07	10.0
80-001	SAUGER	P		S	F	1	1.5	0.47	375	1.10	250.0
80-011	LOGPERCH	I	M	S	D	2	3.0	0.94	45	0.13	15.0
80-015	GREENSIDE DARTER	I	M	S	D	1	1.5	0.47	4	0.01	3.0
80-016	BANDED DARTER	I	I	S	D	2	3.0	0.94	4	0.01	1.5
80-022	RAINBOW DARTER	I	M	S	D	1	1.5	0.47	3	0.01	2.0

**No Species:** 27    **Nat. Species:** 26    **Hybrids:** 0    **Total Counted:** 212    **Total Rel. Wt. :** 34173  
**IBI:** 44.0    **MIwb:** 9.1

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM27 River: 11-100 East Fork Little Miami River RM: 13.70 Date: 08/14/2012

Time Fished: 2221 Distance: 0.200 Drainge (sq mi): 364.0 Depth: 0

Location: Lat: 39.08000 Long: -84.17720

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		4	6.0	0.70	720	2.21	120.0
40-009	BLACK REDHORSE	I	I	S	R	13	19.5	2.26	4965	15.23	254.6
40-015	NORTHERN HOG SUCKER	I	M	S	R	9	13.5	1.57	660	2.02	48.8
43-001	COMMON CARP	O	T	M	G	5	7.5	0.87	16800	51.54	2240.0
43-020	EMERALD SHINER	I		M	N	148	222.0	25.74	327	1.00	1.4
43-032	SPOTFIN SHINER	I		M	N	19	28.5	3.30	111	0.34	3.8
43-034	SAND SHINER	I	M	M	N	17	25.5	2.96	30	0.09	1.1
43-035	MIMIC SHINER	I	I	M	N	17	25.5	2.96	30	0.09	1.1
43-043	BLUNTNOSE MINNOW	O	T	C	N	67	100.5	11.65	88	0.27	0.8
43-044	CENTRAL STONEROLLER	H		N	N	18	27.0	3.13	330	1.01	12.2
47-002	CHANNEL CATFISH			C	F	3	4.5	0.52	495	1.52	110.0
70-001	BROOK SILVERSIDE	I	M	M		2	3.0	0.35	7	0.02	2.5
77-002	BLACK CRAPPIE	I		C	S	2	3.0	0.35	36	0.11	12.0
77-003	ROCK BASS	C		C	S	2	3.0	0.35	127	0.39	42.5
77-004	SMALLMOUTH BASS	C	M	C	F	12	18.0	2.09	405	1.24	22.5
77-006	LARGEMOUTH BASS	C		C	F	1	1.5	0.17	720	2.21	480.0
77-008	GREEN SUNFISH	I	T	C	S	1	1.5	0.17	90	0.28	60.0
77-009	BLUEGILL SUNFISH	I	P	C	S	6	9.0	1.04	75	0.23	8.3
77-011	LONGEAR SUNFISH	I	M	C	S	190	285.0	33.04	1344	4.12	4.7
77-015	GREEN SF X BLUEGILL SF					1	1.5	0.17	18	0.06	12.0
80-007	SLENDERHEAD DARTER	I	R	S	D	2	3.0	0.35	9	0.03	3.0
80-011	LOGPERCH	I	M	S	D	14	21.0	2.43	279	0.86	13.2
80-015	GREENSIDE DARTER	I	M	S	D	8	12.0	1.39	75	0.23	6.2
80-016	BANDED DARTER	I	I	S	D	5	7.5	0.87	30	0.09	4.0
80-022	RAINBOW DARTER	I	M	S	D	6	9.0	1.04	24	0.07	2.6
85-001	FRESHWATER DRUM		P	M		3	4.5	0.52	4800	14.73	1066.6

**No Species:** 25      **Nat. Species:** 24      **Hybrids:** 1      **Total Counted:** 575      **Total Rel. Wt. :** 32596

**IBI:** 46.0      **MIwb:** 8.5

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM27 River: 11-100 East Fork Little Miami River RM: 13.70 Date: 10/01/2012

Time Fished: 2472 Distance: 0.200 Drainge (sq mi): 364.0 Depth: 0

Location: Lat: 39.08000 Long: -84.17720

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-003	GIZZARD SHAD	O		M		3	4.5	0.85	735	2.47	163.3
40-009	BLACK REDHORSE	I	I	S	R	1	1.5	0.28	345	1.16	230.0
40-010	GOLDEN REDHORSE	I	M	S	R	12	18.0	3.42	6000	20.15	333.3
40-015	NORTHERN HOG SUCKER	I	M	S	R	3	4.5	0.85	240	0.81	53.3
40-023	SMALLMOUTH REDHORSE	I	M	S	R	3	4.5	0.85	8145	27.35	1810.0
43-001	COMMON CARP	O	T	M	G	2	3.0	0.57	7500	25.19	2500.0
43-020	EMERALD SHINER	I		M	N	27	40.5	7.69	108	0.36	2.6
43-032	SPOTFIN SHINER	I		M	N	37	55.5	10.54	138	0.46	2.4
43-034	SAND SHINER	I	M	M	N	5	7.5	1.42	12	0.04	1.6
43-043	BLUNTNOSE MINNOW	O	T	C	N	99	148.5	28.21	288	0.97	1.9
43-044	CENTRAL STONEROLLER	H		N	N	22	33.0	6.27	465	1.56	14.0
47-002	CHANNEL CATFISH			C	F	10	15.0	2.85	2505	8.41	167.0
70-001	BROOK SILVERSIDE	I	M	M		5	7.5	1.42	12	0.04	1.6
77-002	BLACK CRAPPIE	I		C	S	2	3.0	0.57	127	0.43	42.5
77-003	ROCK BASS	C		C	S	7	10.5	1.99	930	3.12	88.5
77-004	SMALLMOUTH BASS	C	M	C	F	8	12.0	2.28	480	1.61	40.0
77-006	LARGEMOUTH BASS	C		C	F	2	3.0	0.57	6	0.02	2.0
77-008	GREEN SUNFISH	I	T	C	S	1	1.5	0.28	90	0.30	60.0
77-009	BLUEGILL SUNFISH	I	P	C	S	11	16.5	3.13	405	1.36	24.5
77-011	LONGEAR SUNFISH	I	M	C	S	74	111.0	21.08	990	3.32	8.9
77-017	LONGEAR SF X BLUEGILL SF					3	4.5	0.85	105	0.35	23.3
80-007	SLENDERHEAD DARTER	I	R	S	D	1	1.5	0.28	12	0.04	8.0
80-011	LOGPERCH	I	M	S	D	5	7.5	1.42	108	0.36	14.4
80-015	GREENSIDE DARTER	I	M	S	D	1	1.5	0.28	15	0.05	10.0
80-016	BANDED DARTER	I	I	S	D	2	3.0	0.57	6	0.02	2.0
80-022	RAINBOW DARTER	I	M	S	D	5	7.5	1.42	12	0.04	1.6

**No Species:** 25      **Nat. Species:** 24      **Hybrids:** 1      **Total Counted:** 351      **Total Rel. Wt. :** 29779

**IBI:** 40.0      **MIwb:** 8.8

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM26 River: 11-100 East Fork Little Miami River RM: 15.00 Date: 08/13/2012  
 Time Fished: 3457 Distance: 0.200 Drainge (sq mi): 352.0 Depth: 0  
 Location: Ust. Hwy 222 Lat: 39.05969 Long: -84.17861

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-009	BLACK REDHORSE	I	I	S	R	2	3.0	0.36	600	3.80	200.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	28	42.0	5.10	2925	18.50	69.6
43-020	EMERALD SHINER	I		M	N	108	162.0	19.67	195	1.23	1.2
43-026	COMMON SHINER	I		S	N	9	13.5	1.64	225	1.42	16.6
43-032	SPOTFIN SHINER	I		M	N	13	19.5	2.37	114	0.72	5.8
43-034	SAND SHINER	I	M	M	N	2	3.0	0.36	6	0.04	2.0
43-043	BLUNTNOSE MINNOW	O	T	C	N	24	36.0	4.37	75	0.47	2.0
43-044	CENTRAL STONEROLLER	H		N	N	41	61.5	7.47	1029	6.51	16.7
47-007	FLATHEAD CATFISH	P		C	F	1	1.5	0.18	30	0.19	20.0
47-008	STONECAT MADTOM	I	I	C		2	3.0	0.36	49	0.31	16.5
77-002	BLACK CRAPPIE	I		C	S	3	4.5	0.55	105	0.66	23.3
77-003	ROCK BASS	C		C	S	22	33.0	4.01	3720	23.53	112.7
77-004	SMALLMOUTH BASS	C	M	C	F	33	49.5	6.01	399	2.52	8.0
77-005	SPOTTED BASS	C		C	F	1	1.5	0.18	75	0.47	50.0
77-008	GREEN SUNFISH	I	T	C	S	5	7.5	0.91	255	1.61	34.0
77-009	BLUEGILL SUNFISH	I	P	C	S	11	16.5	2.00	255	1.61	15.4
77-011	LONGEAR SUNFISH	I	M	C	S	175	262.5	31.88	5152	32.59	19.6
80-011	LOGPERCH	I	M	S	D	2	3.0	0.36	120	0.76	40.0
80-014	JOHNNY DARTER	I		C	D	2	3.0	0.36	4	0.03	1.5
80-015	GREENSIDE DARTER	I	M	S	D	23	34.5	4.19	321	2.03	9.3
80-016	BANDED DARTER	I	I	S	D	10	15.0	1.82	30	0.19	2.0
80-022	RAINBOW DARTER	I	M	S	D	24	36.0	4.37	76	0.48	2.1
80-024	FANTAIL DARTER	I		C	D	8	12.0	1.46	48	0.30	4.0

**No Species:** 23    **Nat. Species:** 23    **Hybrids:** 0    **Total Counted:** 549    **Total Rel. Wt. :** 15810

**IBI:** 50.0    **MIwb:** 9.0

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM26 River: 11-100 East Fork Little Miami River RM: 15.00 Date: 10/01/2012  
 Time Fished: 3042 Distance: 0.200 Drainge (sq mi): 352.0 Depth: 0  
 Location: Ust. Hwy 222 Lat: 39.05969 Long: -84.17861

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-009	BLACK REDHORSE	I	I	S	R	4	6.0	1.06	405	3.08	67.5
40-010	GOLDEN REDHORSE	I	M	S	R	3	4.5	0.80	390	2.97	86.6
40-015	NORTHERN HOG SUCKER	I	M	S	R	35	52.5	9.28	3495	26.62	66.5
43-013	CREEK CHUB	G	T	N	N	2	3.0	0.53	36	0.27	12.0
43-020	EMERALD SHINER	I		M	N	45	67.5	11.94	195	1.49	2.8
43-025	STRIPED SHINER	I		S	N	12	18.0	3.18	165	1.26	9.1
43-032	SPOTFIN SHINER	I		M	N	8	12.0	2.12	45	0.34	3.7
43-034	SAND SHINER	I	M	M	N	11	16.5	2.92	36	0.27	2.1
43-043	BLUNTNOSE MINNOW	O	T	C	N	45	67.5	11.94	135	1.03	2.0
43-044	CENTRAL STONEROLLER	H		N	N	13	19.5	3.45	108	0.82	5.5
77-002	BLACK CRAPPIE	I		C	S	1	1.5	0.27	15	0.11	10.0
77-003	ROCK BASS	C		C	S	10	15.0	2.65	1590	12.11	106.0
77-004	SMALLMOUTH BASS	C	M	C	F	27	40.5	7.16	2269	17.29	56.0
77-006	LARGEMOUTH BASS	C		C	F	1	1.5	0.27	60	0.46	40.0
77-008	GREEN SUNFISH	I	T	C	S	8	12.0	2.12	315	2.40	26.2
77-009	BLUEGILL SUNFISH	I	P	C	S	4	6.0	1.06	105	0.80	17.5
77-011	LONGEAR SUNFISH	I	M	C	S	101	151.5	26.79	3595	27.38	23.7
80-011	LOGPERCH	I	M	S	D	3	4.5	0.80	61	0.47	13.6
80-015	GREENSIDE DARTER	I	M	S	D	7	10.5	1.86	33	0.25	3.1
80-016	BANDED DARTER	I	I	S	D	13	19.5	3.45	19	0.15	1.0
80-022	RAINBOW DARTER	I	M	S	D	15	22.5	3.98	42	0.32	1.8
80-024	FANTAIL DARTER	I		C	D	9	13.5	2.39	13	0.10	1.0

**No Species:** 22    **Nat. Species:** 22    **Hybrids:** 0    **Total Counted:** 377    **Total Rel. Wt. :** 13129

**IBI:** 44.0    **MIwb:** 8.7



# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM25 River: 11-100 East Fork Little Miami River RM: 19.50 Date: 08/13/2012  
 Time Fished: 3499 Distance: 0.150 Drainge (sq mi): 344.0 Depth: 0  
 Location: Dst. E. Fork Lake @ end of Elklick Rd. Lat: 39.03286 Long: -84.15144

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-009	BLACK REDHORSE	I	I	S	R	25	50.0	4.39	23060	42.46	461.2
40-010	GOLDEN REDHORSE	I	M	S	R	6	12.0	1.05	6900	12.70	575.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	9	18.0	1.58	3960	7.29	220.0
43-020	EMERALD SHINER	I		M	N	135	270.0	23.68	620	1.14	2.3
43-025	STRIPED SHINER	I		S	N	4	8.0	0.70	170	0.31	21.2
43-031	STEELCOLOR SHINER	I	P	M	N	5	10.0	0.88	164	0.30	16.4
43-032	SPOTFIN SHINER	I		M	N	61	122.0	10.70	1102	2.03	9.0
43-034	SAND SHINER	I	M	M	N	3	6.0	0.53	12	0.02	2.0
43-035	MIMIC SHINER	I	I	M	N	3	6.0	0.53	8	0.01	1.3
43-043	BLUNTNOSE MINNOW	O	T	C	N	48	96.0	8.42	328	0.60	3.4
43-044	CENTRAL STONEROLLER	H		N	N	90	180.0	15.79	4736	8.72	26.3
47-002	CHANNEL CATFISH			C	F	9	18.0	1.58	1940	3.57	107.7
77-001	WHITE CRAPPIE	I		C	S	1	2.0	0.18	12	0.02	6.0
77-002	BLACK CRAPPIE	I		C	S	4	8.0	0.70	180	0.33	22.5
77-003	ROCK BASS	C		C	S	18	36.0	3.16	3088	5.69	85.7
77-004	SMALLMOUTH BASS	C	M	C	F	39	78.0	6.84	3870	7.13	49.6
77-005	SPOTTED BASS	C		C	F	1	2.0	0.18	70	0.13	35.0
77-008	GREEN SUNFISH	I	T	C	S	6	12.0	1.05	228	0.42	19.0
77-009	BLUEGILL SUNFISH	I	P	C	S	1	2.0	0.18	6	0.01	3.0
77-011	LONGEAR SUNFISH	I	M	C	S	62	124.0	10.88	2980	5.49	24.0
80-011	LOGPERCH	I	M	S	D	3	6.0	0.53	220	0.41	36.6
80-015	GREENSIDE DARTER	I	M	S	D	26	52.0	4.56	578	1.06	11.1
80-016	BANDED DARTER	I	I	S	D	4	8.0	0.70	22	0.04	2.7
80-022	RAINBOW DARTER	I	M	S	D	4	8.0	0.70	36	0.07	4.5
80-024	FANTAIL DARTER	I		C	D	3	6.0	0.53	20	0.04	3.3

**No Species:** 25    **Nat. Species:** 25    **Hybrids:** 0    **Total Counted:** 570    **Total Rel. Wt. :** 54310  
**IBI:** 48.0    **MIwb:** 9.8

# Appendix A-5. Midwest Biodiversity Institute

## Fish Species List

Site ID: LM25 River: 11-100 East Fork Little Miami River RM: 19.50 Date: 10/01/2012  
 Time Fished: 2416 Distance: 0.200 Drainge (sq mi): 344.0 Depth: 0  
 Location: Dst. E. Fork Lake @ end of Elklick Rd. Lat: 39.03286 Long: -84.15144

Species Code:	Species Name:	Feed Guild	Tolerance	Breed Guild	IBI Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-009	BLACK REDHORSE	I	I	S	R	8	12.0	2.64	5205	16.29	433.7
40-010	GOLDEN REDHORSE	I	M	S	R	1	1.5	0.33	750	2.35	500.0
40-015	NORTHERN HOG SUCKER	I	M	S	R	22	33.0	7.26	5392	16.88	163.4
43-001	COMMON CARP	O	T	M	G	4	6.0	1.32	14250	44.61	2375.0
43-020	EMERALD SHINER	I		M	N	59	88.5	19.47	264	0.83	2.9
43-025	STRIPED SHINER	I		S	N	3	4.5	0.99	120	0.38	26.6
43-032	SPOTFIN SHINER	I		M	N	34	51.0	11.22	240	0.75	4.7
43-043	BLUNTNOSE MINNOW	O	T	C	N	61	91.5	20.13	199	0.62	2.1
43-044	CENTRAL STONEROLLER	H		N	N	33	49.5	10.89	1740	5.45	35.1
47-002	CHANNEL CATFISH			C	F	2	3.0	0.66	255	0.80	85.0
77-003	ROCK BASS	C		C	S	4	6.0	1.32	118	0.37	19.7
77-004	SMALLMOUTH BASS	C	M	C	F	27	40.5	8.91	2647	8.29	65.3
77-006	LARGEMOUTH BASS	C		C	F	2	3.0	0.66	49	0.15	16.5
77-008	GREEN SUNFISH	I	T	C	S	2	3.0	0.66	57	0.18	19.0
77-009	BLUEGILL SUNFISH	I	P	C	S	1	1.5	0.33	22	0.07	15.0
77-011	LONGEAR SUNFISH	I	M	C	S	21	31.5	6.93	498	1.56	15.8
80-011	LOGPERCH	I	M	S	D	1	1.5	0.33	30	0.09	20.0
80-015	GREENSIDE DARTER	I	M	S	D	11	16.5	3.63	90	0.28	5.4
80-016	BANDED DARTER	I	I	S	D	7	10.5	2.31	15	0.05	1.4

**No Species:** 19    **Nat. Species:** 18    **Hybrids:** 0    **Total Counted:** 303    **Total Rel. Wt. :** 31944  
**IBI:** 36.0    **MIwb:** 8.4

## **Appendix B**

### **Little Miami River 2012 Macroinvertebrate Assemblage Data**

Appendix Table B-1. ICI metrics and values from data collected by MBI in the Little Miami River study area in 2012.

Site ID	River Mile	Drainage Area (sq mi)	Number of				Percent:					Qual. EPT	ICI or Narrative
			Total Taxa	Mayfly Taxa	Caddisfly Taxa	Dipteran Taxa	Mayflies	Caddisflies	Tanytarsini	Other Dipt/NI	Tolerant Organisms		
<b>Little Miami River (11-001)</b>													
Year: 2012													
LM01	27.80	1070.0	31(4)	8(6)	6(4)	10(4)	16.6(4)	18.6(4)	27.0(6)	37.5(0)	0.3(6)	19(6)	<b>44</b>
LM02	24.10	1150.0	44(6)	10(6)	8(6)	18(6)	10.0(2)	41.4(6)	14.7(4)	31.4(2)	0.5(6)	12(4)	<b>48</b>
LM03	22.80	1150.0	30(4)	6(4)	7(6)	10(4)	11.5(2)	43.6(6)	30.2(6)	13.7(6)	0.0(6)	17(6)	<b>50</b>
LM04	21.80	1150.0	35(6)	5(2)	5(4)	18(6)	2.6(2)	16.6(4)	14.8(4)	65.8(0)	2.9(2)	8(2)	<b>32</b>
LM05	21.40	1160.0	35(6)	5(2)	7(6)	15(6)	2.8(2)	32.4(4)	27.1(6)	36.9(0)	0.0(6)	14(4)	<b>42</b>
LM06	20.60	1160.0	23(4)	5(2)	6(4)	9(4)	9.1(2)	57.8(6)	21.7(4)	9.4(6)	0.0(6)	12(4)	<b>42</b>
LM07	18.60	1190.0	33(4)	5(2)	8(6)	15(6)	21.6(4)	47.9(6)	11.3(2)	19.1(4)	0.0(6)	15(4)	<b>44</b>
LM08	17.60	1190.0	38(6)	6(4)	7(6)	20(6)	6.0(2)	30.5(4)	21.5(4)	38.6(0)	1.2(6)	13(4)	<b>42</b>
LM09	13.10	1200.0	43(6)	9(6)	10(6)	15(6)	3.9(2)	57.8(6)	13.9(4)	23.4(4)	0.0(6)	15(4)	<b>50</b>
LM10	12.40	1210.0	33(4)	6(4)	8(6)	12(6)	7.8(2)	43.7(6)	14.4(4)	33.6(2)	0.0(6)	14(4)	<b>44</b>
LM11	10.90	1710.0	40(6)	7(4)	8(6)	18(6)	10.2(2)	23.2(4)	35.3(6)	30.9(2)	1.4(4)	18(6)	<b>46</b>
LM12	8.00	1710.0										16	
LM13	7.30	1720.0	33(6)	8(6)	7(6)	11(6)	13.2(4)	56.0(6)	5.6(2)	24.8(2)	0.0(6)	15(4)	<b>48</b>
LM14	5.30	1720.0	33(6)	6(4)	7(6)	13(6)	1.9(2)	16.3(2)	21.8(6)	59.5(0)	1.1(6)	13(4)	<b>42</b>
LM15	4.10	1730.0	44(6)	7(4)	10(6)	19(6)	3.8(2)	13.2(2)	20.8(6)	61.9(0)	0.4(6)	22(6)	<b>44</b>
LM16	3.40	1750.0	42(6)	6(4)	12(6)	14(6)	6.8(2)	16.4(2)	28.5(6)	47.9(0)	1.1(6)	14(4)	<b>42</b>
LM17	1.40	1760.0	22(4)	2(0)	3(2)	8(4)	0.1(2)	0.9(0)	0.0(0)	98.4(0)	0.6(6)	0(0)	<b>18</b>
<b>Unnamed Trib to Little Miami River at RM 0.83 (11-047)</b>													
Year: 2012													
LM103	0.10	1.7										2	<b>P</b>
<b>Unnamed Trib to Little Miami River at RM 13.1 (11-066)</b>													
Year: 2012													
LM21	1.50	3.0										7	<b>G</b>
<b>Unnamed Trib to Little Miami River at RM 7.75 (11-067)</b>													
Year: 2012													
LM20	1.20	0.5										5	
<b>Unnamed Trib (RM 2.7) to Unnamed Trib to Little Mi (11-068)</b>													
Year: 2012													
LM19	0.50	0.6										0	
<b>O'Bannon Creek (11-010)</b>													
Year: 2012													
LM37	1.90	54.3	10(0)	2(0)	3(4)	4(0)	63.1(6)	20.1(6)	1.1(2)	15.7(6)	0.0(6)	9(4)	<b>34</b>
LM38	0.10	59.0										32	<b>G</b>
<b>Polk Run (11-009)</b>													
Year: 2012													

Appendix Table B-1. ICI metrics and values from data collected by MBI in the Little Miami River study area in 2012.

Site ID	River Mile	Drainage Area (sq mi)	Number of				Percent:					Qual. EPT	ICI or Narrative
			Total Taxa	Mayfly Taxa	Caddisfly Taxa	Dipteran Taxa	Mayflies	Caddisflies	Tanytarsini	Other Dipt/NI	Tolerant Organisms		
LM46	3.20	2.6										5	MG
LM39	3.00	2.7										6	G
LM40	0.30	10.0	20(2)	1(0)	1(2)	15(4)	3.5(2)	0.6(2)	23.0(6)	71.3(0)	3.6(6)	7(4)	G
Unnamed Trib to Polk Run at RM 1.79 (11-069)													
Year: 2012													
LM41	2.60	1.3										5	MG
LM44	0.40	2.4										7	G
Unnamed Trib to Polk Run at RM 0.70 (11-070)													
Year: 2012													
LM42	1.90	0.8										4	F
LM43	0.80	2.5										5	MG
Unnamed Trib (RM 1.77) to Unnamed Trib to Polk Run (11-071)													
Year: 2012													
LM45	0.20	1.1										6	G
Sycamore Creek (11-007)													
Year: 2012													
LM47	3.60	3.5										3	F
LM48	2.40	4.8										5	MG
LM49	1.50	6.6	10(0)	2(0)	1(4)	5(0)	3.0(2)	3.0(6)	3.0(2)	90.9(0)	0.0(6)	9(4)	G
LM50	1.10	12.7	16(2)	2(0)	2(4)	8(2)	3.6(2)	5.5(6)	0.0(0)	89.2(0)	0.0(6)	7(2)	MG
LM51	0.30	22.7	14(2)	3(2)	1(2)	7(2)	3.7(2)	0.6(2)	1.3(2)	94.4(0)	5.0(6)	11(4)	G
LM52	0.20	23.3										8	MG
North Branch Sycamore Creek (11-008)													
Year: 2012													
LM57	5.00	2.9										6	G
LM58	3.70	4.4										7	G
LM59	2.00	7.3										9	G
LM60	0.50	9.8	17(2)	2(0)	1(4)	12(2)	9.4(2)	2.3(6)	25.1(6)	62.9(2)	0.0(6)	9(4)	34
LM61	0.05	9.9	22(2)	4(2)	2(4)	12(2)	43.3(6)	5.7(6)	1.3(2)	44.6(4)	14.0(4)	8(4)	36
Trib To Sycamore Cr. (RM 1.12) (11-049)													
Year: 2012													
LM55	1.00	5.3										7	G
LM56	0.30	5.6										8	G
LM53	0.10	5.7	19(2)	1(0)	0(0)	15(4)	7.4(2)	0.0(0)	11.6(4)	80.6(0)	2.5(6)	8(4)	G
Unnamed Trib to N Branch Sycamore Creek at RM 5.4 (11-073)													
Year: 2012													
LM63	0.60	1.1										1	P

Appendix Table B-1. ICI metrics and values from data collected by MBI in the Little Miami River study area in 2012.

Site ID	River Mile	Drainage Area (sq mi)	Number of				Percent:					Qual. EPT	ICI or Narrative	
			Total Taxa	Mayfly Taxa	Caddisfly Taxa	Dipteran Taxa	Mayflies	Caddisflies	Tanytarsini	Other Dipt/NI	Tolerant Organisms			
<b>Unnamed Trib to N Br Sycamore Cr at RM 0.75 (11-074)</b>														
Year: 2012														
LM64	1.40	0.5											0	
<b>Trib to North Branch Sycamore Creek ar RM 2.33 (11-084)</b>														
Year: 2012														
LM62	1.65	0.6											1	
<b>East Fork Little Miami River (11-100)</b>														
Year: 2012														
LM25	19.50	344.0	31(4)	6(4)	6(6)	10(2)	27.0(4)	47.5(6)	14.4(2)	10.5(6)	0.6(6)	16(4)	44	
LM26	14.90	352.0	48(6)	9(6)	7(6)	22(6)	43.2(6)	7.1(2)	4.7(2)	43.4(2)	3.0(6)	25(6)	48	
LM27	13.90	364.0	32(4)	6(4)	8(6)	9(2)	34.3(6)	46.7(6)	7.8(2)	9.7(6)	0.3(6)	22(6)	48	
LM28	13.20	372.0	42(6)	6(4)	7(6)	16(6)	32.5(6)	35.2(6)	7.4(2)	23.6(4)	2.3(6)	24(6)	52	
LM29	11.00	376.0	28(4)	6(4)	7(6)	9(2)	15.3(4)	50.4(6)	12.3(2)	21.9(6)	0.5(6)	16(4)	44	
LM30	9.10	380.0	37(6)	6(4)	8(6)	12(4)	6.3(2)	43.5(6)	5.9(2)	35.0(4)	0.2(6)	17(6)	46	
LM31	5.60	485.0	47(6)	9(6)	8(6)	20(6)	9.9(2)	39.1(6)	6.0(2)	44.3(2)	3.9(4)	20(6)	46	
LM32	4.30	491.0	39(6)	7(4)	9(6)	15(6)	22.6(4)	46.8(6)	10.1(2)	18.0(6)	0.3(6)	16(4)	50	
LM34	2.00	494.0	48(6)	8(4)	7(6)	24(6)	9.7(2)	36.5(6)	9.9(2)	42.4(2)	5.9(2)	18(6)	42	
LM35	1.00	498.0	36(6)	8(4)	9(6)	15(6)	10.9(2)	63.8(6)	6.2(2)	18.7(6)	0.3(6)	17(6)	50	
LM36	0.70	499.0	43(6)	9(6)	11(6)	17(6)	13.2(2)	46.4(6)	11.6(2)	28.4(4)	0.0(6)	17(6)	50	
<b>Dry Run (11-005)</b>														
Year: 2012														
LM70	5.60	0.8											4	
LM66	4.10	3.2											6	G
LM67	2.50	4.7											8	G
<b>Trib to Dry Run (4.20) (11-064)</b>														
Year: 2012														
LM69	0.10	0.9											7	G
<b>Duck Creek (11-004)</b>														
Year: 2012														
LM71	6.00	2.2											0	VP
LM78	5.20	3.5											1	VP
LM72	4.60	5.1											2	P
LM73	4.40	5.8											2	P
LM75	3.30	11.4											4	F
LM76	2.90	11.9	14(2)	0(0)	0(0)	10(2)	0.0(0)	0.0(0)	22.4(6)	77.6(0)	4.6(6)	5(2)	F	F
LM77	1.80	14.3											4	F
LM79	0.90	14.6											0	VP

Appendix Table B-1. ICI metrics and values from data collected by MBI in the Little Miami River study area in 2012.

Site ID	River Mile	Drainage Area (sq mi)	Number of				Percent:					Qual. EPT	ICI or Narrative	
			Total Taxa	Mayfly Taxa	Caddisfly Taxa	Dipteran Taxa	Mayflies	Caddisflies	Tany-tarsini	Other Dipt/NI	Tolerant Organisms			
<b>East Fork Duck Creek (11-051)</b>														
Year: 2012														
LM85	1.50	1.3										0	VP	
LM84	0.60	2.4										1	VP	
LM74	0.15	3.4										3	VP	
<b>Unnamed Trib to Duck Creek at RM 4.8 (11-075)</b>														
Year: 2012														
LM80	0.20	1.4										0	VP	
<b>Little Duck Creek (11-076)</b>														
Year: 2012														
LM86	2.70	0.4										7	G	
LM87	2.60	0.5										6	G	
LM90	2.30	0.5										5	MG	
LM89	1.40	1.1										2	P	
<b>Unnamed Trib to Little Duck Creek at RM 4.42 (11-077)</b>														
Year: 2012														
LM82	0.10	1.4										0		
<b>Clough Creek (11-002)</b>														
Year: 2012														
LM99	4.60	0.9										3	F	
LM95	3.20	2.0										3	F	
LM96	3.10	5.4										6	G	
LM97	1.20	7.5	19(2)	2(0)	5(6)	10(2)	6.5(2)	53.3(6)	7.5(2)	32.3(4)	1.0(6)	7(4)	34	
LM98	0.40	8.0										8	G	
<b>McCullough Run (11-003)</b>														
Year: 2012														
LM94	1.30	1.7										0	VP	
<b>Unnamed Trib to McCullough Run at RM 1.08 (11-078)</b>														
Year: 2012														
LM93	1.40	0.9										5	MG	
<b>Trib to Unnamed Trib to Clough Creek at RM3.06 (11-079)</b>														
Year: 2012														
LM101	1.05	0.7										4	F	
<b>UT at RM 0.66 to UT to Clough Creek at RM 3.06 (11-080)</b>														
Year: 2012														
LM102	0.20	1.1										2	P	
<b>UT at RM 0.95 to UT to Clough Creek at RM 3.06 (11-081)</b>														

Appendix Table B-1. ICI metrics and values from data collected by MBI in the Little Miami River study area in 2012.

Site ID	River Mile	Drainage Area (sq mi)	Number of				Percent:				Qual. EPT	ICI or Narrative	
			Total Taxa	Mayfly Taxa	Caddisfly Taxa	Dipteran Taxa	Mayflies	Caddisflies	Tany-tarsini	Other Dipt/NI			Tolerant Organisms
Year: 2012													
LM100	0.10	0.9										2	P
Five Mile Creek (10-001)													
Year: 2012													
LM107	2.50	2.6										5	MG
LM108	0.20	4.8										5	MG
Eight Mile Creek (10-002)													
Year: 2012													
LM105	2.00	0.8										2	
Trib to Eight Mile Creek at RM 1.01 (10-130)													
Year: 2012													
LM106	0.10	1.1										4	
Four Mile Creek (10-537)													
Year: 2012													
LM104	0.80	1.1										4	F



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM108**      Collection Date: 07/23/2012   River Code: 10-001   River: Fivemile Creek      RM: 0.20

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	+				
50315	Chimarra obscura	+				
52530	Hydropsyche depravata group	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
84450	Polypedilum (Uresipedilum) flavum	+				

No. Quantitative Taxa: 0      Total Taxa: 8  
 No. Qualitative Taxa: 8      ICI: MG  
 Number of Organisms: 0      Qual EPT: 5

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM107**      Collection Date: 07/26/2012      River Code: 10-001      River: Fivemile Creek      RM: 2.50

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05900	Lirceus sp	+				
11120	Baetis flavistriga	+				
13521	Stenonema femoratum	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68025	Ectopria sp	+				
69400	Stenelmis sp	+				
82710	Chironomus (C.) sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				

No. Quantitative Taxa:	0	Total Taxa:	13
No. Qualitative Taxa:	13	ICI:	MG
Number of Organisms:	0	Qual EPT:	5

Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.

Site ID: **LM105**      Collection Date: 07/26/2012   River Code: 10-002   River: Eightmile Creek      RM: 2.00

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01320	Hydra sp	+				
01801	Turbellaria	+				
03600	Oligochaeta	+				
11120	Baetis flavistriga	+				
52530	Hydropsyche depravata group	+				
69400	Stenelmis sp	+				
78599	Pentaneura sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84315	Phaenopsectra flavipes	+				
84450	Polypedilum (Uresipedilum) flavum	+				

No. Quantitative Taxa: 0      Total Taxa: 10  
 No. Qualitative Taxa: 10      ICI:  
 Number of Organisms: 0      Qual EPT: 2

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM106**      Collection Date: 07/26/2012      River Code: 10-130      River: Trib to Eight Mile Creek @      RM:      0.10

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05900	Lirceus sp	+				
06700	Crangonyx sp	+				
07800	Cambarus sp	+				
11120	Baetis flavistriga	+				
13521	Stenonema femoratum	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
74100	Simulium sp	+				
83040	Dicrotendipes neomodestus	+				
83840	Microtendipes pedellus group	+				
84210	Paratendipes albimanus or P. duplicatus	+				

No. Quantitative Taxa: 0      Total Taxa: 15

No. Qualitative Taxa: 15      ICI:

Number of Organisms: 0      Qual EPT: 4

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM104**      Collection Date: 07/23/2012   River Code: 10-537   River: Fourmile Creek (Ohio R.)   RM:      0.80

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
11120	Baetis flavistriga	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
71100	Hexatoma sp	+				
71900	Tipula sp	+				
77750	Hayesomyia senata or Thienemannimyia norena	+				
83840	Microtendipes pedellus group	+				
84450	Polypedilum (Uresipedilum) flavum	+				

No. Quantitative Taxa:	0	Total Taxa:	11
No. Qualitative Taxa:	11	ICI:	F
Number of Organisms:	0	Qual EPT:	4

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM17**      Collection Date: 08/28/2012   River Code: 11-001   River: Little Miami River      RM: 1.40

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	16 +				
03360	Plumatella sp	4 +				
03600	Oligochaeta	35 +				
16700	Tricorythodes sp	4				
17200	Caenis sp	1				
22300	Argia sp	51				
51206	Cynellus fraternus	55				
54200	Orthotrichia sp	5				
59407	Nectopsyche candida	6				
60900	Peltodytes sp	+				
63900	Laccophilus sp	+				
68601	Ancyronyx variegata	1				
68700	Dubiraphia sp	1				
69400	Stenelmis sp	+				
77120	Ablabesmyia mallochi	107				
77130	Ablabesmyia rhamphe group	322				
82710	Chironomus (C.) sp	+				
83000	Dicrotendipes sp	430				
83040	Dicrotendipes neomodestus	215				
83050	Dicrotendipes lucifer	537				
83300	Glyptotendipes (G.) sp	5586 +				
84000	Parachironomus sp	67				
84470	Polypedilum (P.) illinoense	+				
84540	Polypedilum (Tripodura) scalaenum group	215				
85821	Tanytarsus glabrescens group sp 7	+				
94201	Lymnaeidae	+				
95100	Physella sp	14 +				
96100	Menetus (Micromenetus) sp	9				
98001	Sphaeriidae	13				

No. Quantitative Taxa:	22	Total Taxa:	29
No. Qualitative Taxa:	12	ICI:	18
Number of Organisms:	7694	Qual EPT:	0

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM16</b>		Collection Date: 08/23/2012		River Code: 11-001		River: Little Miami River		RM: 3.40	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	196 +	83040	Dicrotendipes neomodestus		+			
03360	Plumatella sp	34 +	83050	Dicrotendipes lucifer		75 +			
03600	Oligochaeta	112 +	83300	Glyptotendipes (G.) sp		1572 +			
04960	Mooreobdella sp	5	83310	Glyptotendipes (H.) chelonia		75			
11119	Plauditus dubius or P. virilis	+	84450	Polypedilum (Uresipedilum) flavum		1273 +			
11130	Baetis intercalaris	146 +	84470	Polypedilum (P.) illinoense		+			
13510	Maccaffertium exiguum	30 +	84700	Stenochironomus sp		75			
13550	Maccaffertium mexicanum integrum	19	85265	Cladotanytarsus vanderwulpi group		+			
13561	Maccaffertium pulchellum	88 +		Type 5					
13570	Maccaffertium terminatum	13 +	85625	Rheotanytarsus sp		2995 +			
16700	Tricorythodes sp	422 +	85821	Tanytarsus glabrescens group sp 7		+			
21300	Hetaerina sp	1	87540	Hemerodromia sp		7			
22001	Coenagrionidae	+	93900	Elimia sp		+			
22300	Argia sp	26 +	95100	Physella sp		+			
27400	Neurocordulia sp	1 +							
50315	Chimarra obscura	32 +	No. Quantitative Taxa:	42	Total Taxa:	55			
51206	Cynellus fraternus	2 +	No. Qualitative Taxa:	39	ICI:	42			
51300	Neureclipsis sp	26	Number of Organisms:	10505	Qual EPT:	14			
52200	Cheumatopsyche sp	1489 +							
52430	Ceratopsyche morosa group	27 +							
52550	Hydropsyche frisoni	39 +							
52560	Hydropsyche orris	25							
52570	Hydropsyche simulans	3							
52801	Potamyia flava	29 +							
53800	Hydroptila sp	32							
59160	Ceraclea spongillovorax	15 +							
59407	Nectopsyche candida	3 +							
59970	Petrophila sp	3							
66500	Enochrus sp	+							
68201	Scirtidae	+							
68601	Ancyronyx variegata	1							
68901	Macronychus glabratus	2							
69400	Stenelmis sp	+							
74100	Simulium sp	2 +							
77120	Ablabesmyia mallochi	225							
77130	Ablabesmyia rhamphe group	+							
77750	Hayesomyia senata or Thienemannimyia norena	749 +							
78750	Rheopelopia paramaculipennis	401 +							
80350	Corynoneura sp	32							
80410	Cricotopus (C.) sp	75							
80430	Cricotopus (C.) tremulus group	+							
82130	Thienemanniella similis	128 +							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM15</b>		Collection Date: 08/25/2012		River Code: 11-001		River: Little Miami River		RM: 4.10	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	210	80001	Orthoclaadiinae		83			
03073	Lophopodella carteri	1 +	80310	Cardiocladius obscurus		+			
03360	Plumatella sp	20 +	80420	Cricotopus (C.) bicinctus		+			
03600	Oligochaeta	40	80430	Cricotopus (C.) tremulus group		+			
11119	Plauditus dubius or P. virilis	+	81201	Nanocladius (N.) sp		83			
11130	Baetis intercalaris	79 +	81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"		166 +			
11200	Callibaetis sp	+	82130	Thienemanniella similis		160			
12200	Isonychia sp	1 +	82220	Tvetenia discoloripes group		83			
13000	Leucrocuta sp	+	83040	Dicrotendipes neomodestus		379 +			
13510	Maccaffertium exiguum	34 +	83050	Dicrotendipes lucifer		285 +			
13521	Stenonema femoratum	+	83300	Glyptotendipes (G.) sp		746 +			
13550	Maccaffertium mexicanum integrum	7	83310	Glyptotendipes (H.) chelonia		249			
13561	Maccaffertium pulchellum	83 +	84000	Parachironomus sp		83			
13570	Maccaffertium terminatum	2 +	84040	Parachironomus frequens		83			
16700	Tricorythodes sp	185 +	84450	Polypedilum (Uresipedilum) flavum		2239 +			
17200	Caenis sp	+	84470	Polypedilum (P.) illinoense		+			
21300	Hetaerina sp	+	84540	Polypedilum (Tripodura) scalaenum group		249 +			
22001	Coenagrionidae	+	84700	Stenochironomus sp		83			
22300	Argia sp	1 +	84960	Pseudochironomus sp		+			
27400	Neurocordulia sp	+	85625	Rheotanytarsus sp		2073 +			
50315	Chimarra obscura	+	85821	Tanytarsus glabrescens group sp 7		83			
51206	Cynellus fraternus	3	93900	Elimia sp		+			
51300	Neureclipsis sp	+	95100	Physella sp		+			
51600	Polycentropus sp	+							
52200	Cheumatopsyche sp	896 +							
52430	Ceratopsyche morosa group	238 +							
52510	Hydropsyche aerata	46 +	No. Quantitative Taxa: 44		Total Taxa: 65				
52540	Hydropsyche dicantha	1	No. Qualitative Taxa: 48		ICI: 44				
52560	Hydropsyche orris	36 +	Number of Organisms: 10372		Qual EPT: 22				
52570	Hydropsyche simulans	47							
52801	Potamyia flava	1 +							
53400	Protoptila sp	+							
59160	Ceraclea spongillovorax	38 +							
59407	Nectopsyche candida	+							
59500	Oecetis sp	64							
59970	Petrophila sp	20 +							
67800	Tropisternus sp	+							
68901	Macronychus glabratus	11							
69400	Stenelmis sp	3 +							
74100	Simulium sp	17 +							
77750	Hayesomyia senata or Thienemannimyia norena	829 +							
78750	Rheopelopia paramaculipennis	332 +							



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM14</b>		Collection Date: 08/24/2012		River Code: 11-001		River: Little Miami River		RM: 5.30	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	52	83300	Glyptotendipes (G.) sp		1069	+		
03360	Plumatella sp	24	83310	Glyptotendipes (H.) chelonia		102			
03600	Oligochaeta	4	84000	Parachironomus sp			+		
11130	Baetis intercalaris	1	84040	Parachironomus frequens		102			
13400	Stenacron sp		84450	Polypedilum (Uresipedilum) flavum		509	+		
13510	Maccaffertium exiguum	14	84470	Polypedilum (P.) illinoense			+		
13521	Stenonema femoratum	1	84540	Polypedilum (Tripodura) scalaenum group		51			
13550	Maccaffertium mexicanum integrum	1	85625	Rheotanytarsus sp		967	+		
13561	Maccaffertium pulchellum	51	85821	Tanytarsus glabrescens group sp 7		162			
13570	Maccaffertium terminatum		93900	Elimia sp			+		
16700	Tricorythodes sp	32	95100	Physella sp			1		
21300	Hetaerina sp		99720	Potamilus ohioensis				+	
22300	Argia sp	1							
24900	Gomphus sp								
50315	Chimarra obscura								
51206	Cynellus fraternus	194							
51300	Neureclipsis sp								
52200	Cheumatopsyche sp	593							
52430	Ceratopsyche morosa group	3							
52510	Hydropsyche aerata	1							
52570	Hydropsyche simulans	25							
52801	Potamyia flava	16							
53800	Hydroptila sp								
59160	Ceraclea spongillovorax	16							
59407	Nectopsyche candida								
59500	Oecetis sp								
59970	Petrophila sp	8							
65800	Berosus sp								
68075	Psephenus herricki								
68601	Ancyronyx variegata								
68901	Macronychus glabratus	16							
69400	Stenelmis sp								
77120	Ablabesmyia mallochi								
77130	Ablabesmyia rhamphe group								
77750	Hayesomyia senata or Thienemannimyia norena	356							
78750	Rheopelopia paramaculipennis	153							
80410	Cricotopus (C.) sp	153							
81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"								
81240	Nanocladius (N.) distinctus	51							
83040	Dicrotendipes neomodestus	255							
83050	Dicrotendipes lucifer	204							

No. Quantitative Taxa:	33	Total Taxa:	53
No. Qualitative Taxa:	36	ICI:	42
Number of Organisms:	5188	Qual EPT:	13

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM13</b>		Collection Date: 08/24/2012		River Code: 11-001		River: Little Miami River		RM: 7.30	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	145 +	82100	Thienemanniella sp		8			
03360	Plumatella sp	24	82201	Tvetenia sp		57			
03451	Urnatella gracilis	1 +	83300	Glyptotendipes (G.) sp		58 +			
03600	Oligochaeta	+	83310	Glyptotendipes (H.) chelonia		38			
11020	Acerpenna pygmaea	1	84450	Polypedilum (Uresipedilum) flavum		803 +			
11130	Baetis intercalaris	466 +	84470	Polypedilum (P.) illinoense		+			
12200	Isonychia sp	4	84520	Polypedilum (Tripodura) halterale group		+			
13000	Leucrocota sp	+	84540	Polypedilum (Tripodura) scalaenum group		19			
13510	Maccaffertium exiguum	63 +							
13550	Maccaffertium mexicanum integrum	1	85625	Rheotanytarsus sp		306 +			
13561	Maccaffertium pulchellum	89 +	93900	Elimia sp		+			
13570	Maccaffertium terminatum	2	95100	Physella sp		+			
16700	Tricorythodes sp	89 +	97601	Corbicula fluminea		1 +			
21300	Hetaerina sp	+	98600	Sphaerium sp		9 +			
22001	Coenagrionidae	+							
22300	Argia sp	+	No. Quantitative Taxa: 33		Total Taxa: 54				
27307	Epitheca (Epicordulia) princeps	+	No. Qualitative Taxa: 42		ICI: 48				
50315	Chimarra obscura	141 +	Number of Organisms: 5437		Qual EPT: 15				
51206	Cynellus fraternus	+							
51300	Neureclipsis sp	+							
52200	Cheumatopsyche sp	2340 +							
52430	Ceratopsyche morosa group	387 +							
52510	Hydropsyche aerata	3 +							
52560	Hydropsyche orris	3							
52570	Hydropsyche simulans	167 +							
53800	Hydroptila sp	+							
59160	Ceraclea spongillovorax	1 +							
59407	Nectopsyche candida	+							
59970	Petrophila sp	+							
63900	Laccophilus sp	+							
65800	Berosus sp	+							
68601	Ancyronyx variegata	+							
68901	Macronychus glabratus	11							
69400	Stenelmis sp	16 +							
74100	Simulium sp	50 +							
77130	Ablabesmyia rhamphe group	+							
77750	Hayesomyia senata or Thienemannimyia norena	38 +							
78450	Nilotanypus fimbriatus	+							
78750	Rheopelopia paramaculipennis	77							
80310	Cardiocladius obscurus	+							
81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"	19 +							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM12</b>		Collection Date: 08/25/2012		River Code: 11-001		River: Little Miami River		RM: 8.00	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	+							
03073	Lophopodella carteri	+	No. Quantitative Taxa: 0		Total Taxa: 40				
03360	Plumatella sp	+	No. Qualitative Taxa: 40		ICI:				
04663	Helobdella papillata	+	Number of Organisms: 0		Qual EPT: 16				
11119	Plauditus dubius or P. virilis	+							
11130	Baetis intercalaris	+							
12200	Isonychia sp	+							
13000	Leucrocuta sp	+							
13400	Stenacron sp	+							
13510	Maccaffertium exiguum	+							
13561	Maccaffertium pulchellum	+							
17200	Caenis sp	+							
21300	Hetaerina sp	+							
22300	Argia sp	+							
50315	Chimarra obscura	+							
52200	Cheumatopsyche sp	+							
52430	Ceratopsyche morosa group	+							
52510	Hydropsyche aerata	+							
52801	Potamyia flava	+							
53800	Hydroptila sp	+							
59160	Ceraclea spongillovorax	+							
59407	Nectopsyche candida	+							
66500	Enochrus sp	+							
69400	Stenelmis sp	+							
74100	Simulium sp	+							
77120	Ablabesmyia mallochi	+							
78750	Rheopelopia paramaculipennis	+							
80310	Cardiocladius obscurus	+							
80430	Cricotopus (C.) tremulus group	+							
81240	Nanocladius (N.) distinctus	+							
82130	Thienemanniella similis	+							
83040	Dicrotendipes neomodestus	+							
83310	Glyptotendipes (H.) chelonia	+							
84450	Polypedilum (Uresipedilum) flavum	+							
84470	Polypedilum (P.) illinoense	+							
84540	Polypedilum (Tripodura) scalaenum group	+							
85625	Rheotanytarsus sp	+							
85821	Tanytarsus glabrescens group sp 7	+							
93900	Elimia sp	+							
95100	Physella sp	+							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM11</b>		Collection Date: 08/20/2012 River Code: 11-001		River: Little Miami River		RM: 10.90	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.	
01801	Turbellaria	71 +	82101	Thienemanniella taurocapita		32	
03360	Plumatella sp	23 +	82130	Thienemanniella similis		32 +	
03600	Oligochaeta	8 +	83040	Dicrotendipes neomodestus		84	
04663	Helobdella papillata	+	83050	Dicrotendipes lucifer		126 +	
11119	Plauditus dubius or P. virilis	9 +	83300	Glyptotendipes (G.) sp		251 +	
11130	Baetis intercalaris	118 +	83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)		+	
13000	Leucrocota sp	+	84039	Parachironomus frequens group		42 +	
13400	Stenacron sp	+	84450	Polypedilum (Uresipedilum) flavum		795 +	
13510	Maccaffertium exiguum	25	84540	Polypedilum (Tripodura) scalaenum group		+	
13521	Stenonema femoratum	+	84960	Pseudochironomus sp		42	
13550	Maccaffertium mexicanum integrum	5	85625	Rheotanytarsus sp		2177 +	
13561	Maccaffertium pulchellum	25 +	85821	Tanytarsus glabrescens group sp 7		126	
13570	Maccaffertium terminatum	15 +	87501	Empididae		1	
16700	Tricorythodes sp	467 +	93900	Elimia sp		1 +	
17200	Caenis sp	+	97601	Corbicula fluminea		+	
21300	Hetaerina sp	+	98600	Sphaerium sp		+	
22001	Coenagrionidae	+					
22300	Argia sp	1 +					
27400	Neurocordulia sp	+					
34605	Perlinella drymo	+					
50315	Chimarra obscura	+					
51206	Cynellus fraternus	35					
51300	Neureclipsis sp	6 +					
51600	Polycentropus sp	1 +					
52200	Cheumatopsyche sp	1310 +					
52430	Ceratopsyche morosa group	47 +					
52510	Hydropsyche aerata	58 +					
53800	Hydroptila sp	35 +					
59160	Ceraclea spongillovorax	19 +					
59970	Petrophila sp	17 +					
65800	Berosus sp	+					
67800	Tropisternus sp	+					
68901	Macronychus glabratus	10 +					
69400	Stenelmis sp	+					
74100	Simulium sp	+					
77130	Ablabesmyia rhamphe group	42					
77750	Hayesomyia senata or Thienemannimyia norena	50 +					
78750	Rheopelopia paramaculipennis	201 +					
80310	Cardiocladius obscurus	84 +					
80420	Cricotopus (C.) bicinctus	42					
80430	Cricotopus (C.) tremulus group	42					
81240	Nanocladius (N.) distinctus	42					

No. Quantitative Taxa:	40	Total Taxa:	58
No. Qualitative Taxa:	46	ICI:	46
Number of Organisms:	6517	Qual EPT:	18

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM10</b>		Collection Date: 08/20/2012		River Code: 11-001		River: Little Miami River		RM: 12.40	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	93 +	83300	Glyptotendipes (G.) sp		67			
03360	Plumatella sp	36 +	83310	Glyptotendipes (H.) chelonia		34 +			
03600	Oligochaeta	+	84450	Polypedilum (Uresipedilum) flavum		1106 +			
05900	Lirceus sp	1 +	84540	Polypedilum (Tripodura) scalaenum group		34 +			
11119	Plauditus dubius or P. virilis	1 +							
11130	Baetis intercalaris	324 +	85625	Rheotanytarsus sp		771 +			
12200	Isonychia sp	2	85821	Tanytarsus glabrescens group sp 7		67			
13400	Stenacron sp	+	93900	Elimia sp		+			
13510	Maccaffertium exiguum	2 +	95100	Physella sp		+			
13521	Stenonema femoratum	+	96900	Ferrissia sp		+			
13561	Maccaffertium pulchellum	15 +	97601	Corbicula fluminea		+			
13570	Maccaffertium terminatum	+							
16700	Tricorythodes sp	110 +	No. Quantitative Taxa: 33		Total Taxa: 51				
21300	Hetaerina sp	+	No. Qualitative Taxa: 42		ICI: 44				
22001	Coenagrionidae	+	Number of Organisms: 5806		Qual EPT: 14				
22300	Argia sp	1 +							
24900	Gomphus sp	+							
34700	Agnetina capitata complex	+							
50315	Chimarra obscura	10 +							
52200	Cheumatopsyche sp	1935 +							
52430	Ceratopsyche morosa group	537 +							
52510	Hydropsyche aerata	47 +							
52540	Hydropsyche dicantha	1 +							
52801	Potamyia flava	1							
53800	Hydroptila sp	2							
59160	Ceraclea spongillovorax	5							
59970	Petrophila sp	22 +							
60900	Peltodytes sp	+							
65800	Berosus sp	+							
68075	Psephenus herricki	+							
68601	Ancyronyx variegata	+							
69400	Stenelmis sp	1 +							
69713	Lutrochus laticeps	1							
77750	Hayesomyia senata or Thienemannimyia norena	235 +							
78450	Nilotanypus fimbriatus	8							
78750	Rheopelopia paramaculipennis	235 +							
80430	Cricotopus (C.) tremulus group	34 +							
81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"	34 +							
81240	Nanocladius (N.) distinctus	+							
82220	Tvetenia discoloripes group	34							
82730	Chironomus (C.) decorus group	+							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM09</b>		Collection Date: 08/15/2012		River Code: 11-001		River: Little Miami River		RM: 13.10	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	247 +	82820	Cryptochironomus sp		+			
03360	Plumatella sp	42 +	83040	Dicrotendipes neomodestus		42			
11119	Plauditus dubius or P. virilis	2	83300	Glyptotendipes (G.) sp		21			
11130	Baetis intercalaris	44 +	83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)		83			
12200	Isonychia sp	+	84450	Polypedilum (Uresipedilum) flavum		395 +			
13400	Stenacron sp	2 +	84470	Polypedilum (P.) illinoense		+			
13510	Maccaffertium exiguum	9	84540	Polypedilum (Tripodura) scalaenum group		21			
13521	Stenonema femoratum	2 +	84888	Xenochironomus xenolabis		21			
13561	Maccaffertium pulchellum	4 +	85265	Cladotanytarsus vanderwulpi group Type 5		21 +			
13570	Maccaffertium terminatum	1 +	85625	Rheotanytarsus sp		727 +			
16700	Tricorythodes sp	162 +	85821	Tanytarsus glabrescens group sp 7		62 +			
17200	Caenis sp	1 +	93900	Elimia sp		23 +			
22001	Coenagrionidae	+	95100	Physella sp		+			
22300	Argia sp	8 +	97601	Corbicula fluminea		2 +			
26700	Macromia sp	+	98600	Sphaerium sp		18 +			
44501	Corixidae	+							
50315	Chimarra obscura	10 +							
51206	Cynellus fraternus	3							
51300	Neureclipsis sp	2 +							
51600	Polycentropus sp	1							
52200	Cheumatopsyche sp	3071 +							
52430	Ceratopsyche morosa group	229 +							
52510	Hydropsyche aerata	10 +							
52570	Hydropsyche simulans	20							
52801	Potamyia flava	10							
59160	Ceraclea spongillovorax	7							
59407	Nectopsyche candida	+							
59580	Oecetis persimilis	+							
59970	Petrophila sp	32 +							
68901	Macronychus glabratus	16							
69400	Stenelmis sp	2 +							
74100	Simulium sp	+							
77120	Ablabesmyia mallochi	+							
77130	Ablabesmyia rhamphe group	21							
77750	Hayesomyia senata or Thienemannimyia norena	221 +							
78450	Nilotanypus fimbriatus	21							
78750	Rheopelopia paramaculipennis	155 +							
80310	Cardiocladius obscurus	+							
80410	Cricotopus (C.) sp	+							
81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"	21 +							
82101	Thienemanniella taurocapita	8							
			No. Quantitative Taxa:		43	Total Taxa:		56	
			No. Qualitative Taxa:		40	ICI:		50	
			Number of Organisms:		5820	Qual EPT:		15	

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM08</b>		Collection Date: 08/24/2012		River Code: 11-001		River: Little Miami River		RM: 17.60	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	5 +	81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"		109			
03073	Lophopodella carteri	+							
03360	Plumatella sp	10 +	82101	Thienemanniella taurocapita		32			
03451	Urnatella gracilis	+	82130	Thienemanniella similis		16			
03600	Oligochaeta	16	82220	Tvetenia discoloripes group				+	
06201	Hyalella azteca	+	82820	Cryptochironomus sp				+	
11119	Plauditus dubius or P. virilis	2	83040	Dicrotendipes neomodestus		254			
11130	Baetis intercalaris	279 +	83050	Dicrotendipes lucifer		145			
13521	Stenonema femoratum	1 +	83051	Dicrotendipes simpsoni		36 +			
13560	Maccaffertium pulchellum group	1 +	83300	Glyptotendipes (G.) sp		363 +			
13570	Maccaffertium terminatum	11	83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)				+	
16700	Tricorythodes sp	153 +	84000	Parachironomus sp				+	
21200	Calopteryx sp	+	84450	Polypedilum (Uresipedilum) flavum		1053 +			
22001	Coenagrionidae	+	84700	Stenochironomus sp		73			
22300	Argia sp	+	84960	Pseudochironomus sp		109			
27400	Neurocordulia sp	+	85625	Rheotanytarsus sp		1525 +			
34605	Perlinella drymo	+	85800	Tanytarsus sp		36			
50315	Chimarra obscura	+	85821	Tanytarsus glabrescens group sp 7		36 +			
51206	Cynellus fraternus	49 +	93900	Elimia sp				+	
51300	Neureclipsis sp	1	97601	Corbicula fluminea				+	
51600	Polycentropus sp	+	98600	Sphaerium sp				+	
52200	Cheumatopsyche sp	1937 +							
52430	Ceratopsyche morosa group	150 +							
52510	Hydropsyche aerata	109 +							
52570	Hydropsyche simulans	14							
53800	Hydroptila sp	+							
59160	Ceraclea spongillovorax	6 +							
59970	Petrophila sp	247 +							
65800	Berosus sp	+							
68075	Psephenus herricki	+							
68901	Macronychus glabratus	1							
69400	Stenelmis sp	+							
74100	Simulium sp	8 +							
74650	Atrichopogon sp	+							
77120	Ablabesmyia mallochi	+							
77130	Ablabesmyia rhamphe group	+							
77750	Hayesomyia senata or Thienemannimyia norena	88							
77800	Helopelopia sp	43							
78450	Nilotanypus fimbriatus	16							
78750	Rheopelopia paramaculipennis	305 +							
80410	Cricotopus (C.) sp	145							
80420	Cricotopus (C.) bicinctus	36							

No. Quantitative Taxa: 38      Total Taxa: 62  
 No. Qualitative Taxa: 43      ICI: 42  
 Number of Organisms: 7420      Qual EPT: 13

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM07</b>		Collection Date: 08/24/2012 River Code: 11-001		River: Little Miami River		RM: 18.60	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.	
01801	Turbellaria	1 +		"rectinervis"			
03073	Lophopodella carteri	+	82141	Thienemanniella xena		+	
03360	Plumatella sp	5 +	82220	Tvetenia discoloripes group		14	
03600	Oligochaeta	+	82820	Cryptochironomus sp		+	
04510	Hirudinea	+	83040	Dicrotendipes neomodestus		14 +	
06201	Hyalella azteca	+	83300	Glyptotendipes (G.) sp		57 +	
11130	Baetis intercalaris	640 +	84000	Parachironomus sp		14	
12200	Isonychia sp	+	84039	Parachironomus frequens group		14	
13400	Stenacron sp	+	84450	Polypedilum (Uresipedilum) flavum		458 +	
13510	Maccaffertium exiguum	4	84470	Polypedilum (P.) illinoense		+	
13521	Stenonema femoratum	1 +	84540	Polypedilum (Tripodura) scalaenum group		14 +	
13561	Maccaffertium pulchellum	7 +					
16700	Tricorythodes sp	167 +	85625	Rheotanytarsus sp		386 +	
22300	Argia sp	+	85821	Tanytarsus glabrescens group sp 7		43	
27400	Neurocordulia sp	+	93900	Elimia sp		+	
34300	Neoperla clymene complex	+	96900	Ferrissia sp		+	
34700	Agnetina capitata complex	+	97601	Corbicula fluminea		+	
50315	Chimarra obscura	2 +	98600	Sphaerium sp		+	
51206	Cynnellus fraternus	+					
51300	Neureclipsis sp	1	No. Quantitative Taxa: 33		Total Taxa:	58	
52200	Cheumatopsyche sp	1208 +	No. Qualitative Taxa: 48		ICI:	44	
52430	Ceratopsyche morosa group	511 +	Number of Organisms: 3784		Qual EPT:	15	
52510	Hydropsyche aerata	54					
52560	Hydropsyche orris	1					
52570	Hydropsyche simulans	25					
53400	Protoptila sp	+					
53800	Hydroptila sp	+					
59160	Ceraclea spongillovorax	9 +					
59970	Petrophila sp	+					
65800	Berosus sp	+					
68075	Psephenus herricki	1 +					
68901	Macronychus glabratus	1 +					
69400	Stenelmis sp	1 +					
74100	Simulium sp	3 +					
77120	Ablabesmyia mallochi	+					
77130	Ablabesmyia rhamphe group	+					
77750	Hayesomyia senata or Thienemannimyia norena	14 +					
78750	Rheopelopia paramaculipennis	57 +					
80310	Cardiocladius obscurus	+					
80430	Cricotopus (C.) tremulus group	14					
81200	Nanocladius sp	29 +					
81231	Nanocladius (N.) crassicornus or N. (N.)	14 +					



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM06</b>		Collection Date: 08/15/2012		River Code: 11-001		River: Little Miami River		RM: 20.60	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	73 +	85821	Tanytarsus glabrescens group sp 7		89			
03360	Plumatella sp	+	93900	Elimia sp		2 +			
04686	Placobdella papillifera	+	95100	Physella sp		+			
11119	Plauditus dubius or P. virilis	2 +	95900	Gyraulus sp		+			
11130	Baetis intercalaris	41 +	98600	Sphaerium sp		+			
13400	Stenacron sp	+							
13510	Maccaffertium exiguum	5	No. Quantitative Taxa: 23		Total Taxa: 47				
13561	Maccaffertium pulchellum	9 +	No. Qualitative Taxa: 41		ICI: 42				
13570	Maccaffertium terminatum	+	Number of Organisms: 3517		Qual EPT: 12				
16700	Tricorythodes sp	264 +							
22001	Coenagrionidae	+							
22300	Argia sp	+							
27400	Neurocordulia sp	+							
45400	Trichocorixa sp	+							
50315	Chimarra obscura	1 +							
51206	Cynellus fraternus	59 +							
52200	Cheumatopsyche sp	1846 +							
52430	Ceratopsyche morosa group	97 +							
52510	Hydropsyche aerata	20 +							
52530	Hydropsyche depravata group	10							
59407	Nectopsyche candida	+							
59970	Petrophila sp	70 +							
60900	Peltodytes sp	+							
65800	Berosus sp	+							
68075	Psephenus herricki	+							
68601	Ancyronyx variegata	+							
68708	Dubiraphia vittata group	+							
68901	Macronychus glabratus	+							
69400	Stenelmis sp	+							
74100	Simulium sp	1 +							
77130	Ablabesmyia rhamphe group	+							
77750	Hayesomyia senata or Thienemannimyia norena	13							
78655	Procladius (Holotanypus) sp	+							
78750	Rheopelopia paramaculipennis	76							
80310	Cardiocladius obscurus	+							
80350	Corynoneura sp	+							
83000	Dicrotendipes sp	13 +							
83300	Glyptotendipes (G.) sp	51 +							
83310	Glyptotendipes (H.) chelonia	+							
84450	Polypedilum (Uresipedilum) flavum	89 +							
84700	Stenochironomus sp	13							
85625	Rheotanytarsus sp	673 +							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM05</b>		Collection Date: 08/14/2012		River Code: 11-001		River: Little Miami River		RM: 21.40	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	9 +	82130	Thienemanniella similis		16			
03360	Plumatella sp	18 +	82820	Cryptochironomus sp		+			
03600	Oligochaeta	1	83040	Dicrotendipes neomodestus		225			
05800	Caecidotea sp	+	83300	Glyptotendipes (G.) sp		625			
06201	Hyalella azteca	+	83310	Glyptotendipes (H.) chelonia		25			
11119	Plauditus dubius or P. virilis	12 +	84450	Polypedilum (Uresipedilum) flavum		250 +			
11130	Baetis intercalaris	31 +	84470	Polypedilum (P.) illinoense		+			
11650	Proclleon sp (w/ hindwing pads)	+	84540	Polypedilum (Tripodura) scalaenum group		25 +			
13400	Stenacron sp	+	85260	Cladotanytarsus vanderwulpi group		+			
13510	Maccaffertium exiguum	+	85625	Rheotanytarsus sp		650 +			
13561	Maccaffertium pulchellum	1 +	85821	Tanytarsus glabrescens group sp 7		475			
13570	Maccaffertium terminatum	1 +	87540	Hemerodromia sp		8			
16700	Tricorythodes sp	70 +	93900	Elimia sp		1 +			
21300	Hetaerina sp	+	95100	Physella sp		+			
22001	Coenagrionidae	+	96002	Helisoma anceps anceps		+			
22300	Argia sp	1 +	99001	Unionidae		+			
50315	Chimarra obscura	+	99240	Lasmigona complanata		+			
51206	Cyrnellus fraternus	3							
52200	Cheumatopsyche sp	1204 +							
52430	Ceratopsyche morosa group	114 +	No. Quantitative Taxa:	35	Total Taxa:	58			
52510	Hydropsyche aerata	11	No. Qualitative Taxa:	44	ICI:	42			
53400	Protoptila sp	+	Number of Organisms:	4149	Qual EPT:	14			
53501	Hydroptilidae	8 +							
59160	Ceraclea spongillovorax	5							
59407	Nectopsyche candida	1 +							
59970	Petrophila sp	23 +							
65800	Berosus sp	+							
67800	Tropisternus sp	+							
68025	Ectopria sp	1							
68075	Psephenus herricki	+							
68601	Ancyronyx variegata	+							
68901	Macronychus glabratus	9 +							
69400	Stenelmis sp	+							
74100	Simulium sp	1 +							
77130	Ablabesmyia rhamphe group	+							
77750	Hayesomyia senata or Thienemannimyia norena	125							
78750	Rheopelopia paramaculipennis	100 +							
79085	Telopelopia okoboji	+							
80310	Cardiocladius obscurus	25 +							
80430	Cricotopus (C.) tremulus group	50							
81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"	25							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM04</b>		Collection Date: 08/14/2012		River Code: 11-001		River: Little Miami River		RM: 21.80	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	20 +	84470	Polypedilum (P.) illinoense		+			
03073	Lophopodella carteri	+	84540	Polypedilum (Tripodura) scalaenum group		23			
03360	Plumatella sp	12 +	84700	Stenochironomus sp		68			
03600	Oligochaeta	84	84790	Tribelos fuscicorne		113			
04666	Helobdella papillata	+	84960	Pseudochironomus sp		45			
11200	Callibaetis sp	+	85230	Cladotanytarsus mancus group		23			
11650	Proclleon sp (w/ hindwing pads)	1	85625	Rheotanytarsus sp		135			
11670	Proclleon viridoculare	+	85800	Tanytarsus sp		23			
13400	Stenacron sp	6 +	85821	Tanytarsus glabrescens group sp 7		248 +			
13510	Maccaffertium exiguum	3	93900	Elimia sp		2 +			
13521	Stenonema femoratum	1	97601	Corbicula fluminea		+			
16700	Tricorythodes sp	64 +							
22001	Coenagrionidae	+							
22300	Argia sp	1 +	No. Quantitative Taxa: 35		Total Taxa: 53				
25010	Hagenius brevistylus	+	No. Qualitative Taxa: 29		ICI: 32				
27400	Neurocordulia sp	+	Number of Organisms: 2889		Qual EPT: 8				
51206	Cynellus fraternus	272 +							
51300	Neureclipsis sp	+							
52200	Cheumatopsyche sp	183							
53800	Hydroptila sp	17							
59160	Ceraclea spongillovorax	7							
59407	Nectopsyche candida	2 +							
59500	Oecetis sp	+							
59970	Petrophila sp	1							
60900	Peltodytes sp	+							
65800	Berosus sp	+							
67800	Tropisternus sp	+							
68601	Ancyronyx variegata	+							
68901	Macronychus glabratus	1							
69400	Stenelmis sp	+							
77120	Ablabesmyia mallochi	45							
77130	Ablabesmyia rhamphe group	428 +							
77750	Hayesomyia senata or Thienemannimyia norena	45							
77800	Helopelopia sp	23							
80410	Cricotopus (C.) sp	23							
80430	Cricotopus (C.) tremulus group	+							
81200	Nanocladius sp	23							
82730	Chironomus (C.) decorus group	+							
83040	Dicrotendipes neomodestus	856 +							
83050	Dicrotendipes lucifer	23							
83300	Glyptotendipes (G.) sp	45							
84450	Polypedilum (Uresipedilum) flavum	23							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM03</b>		Collection Date: 08/14/2012		River Code: 11-001		River: Little Miami River		RM: 22.80	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	16 +	81201	Nanocladius (N.) sp		64			
03121	Paludicella articulata	+	82101	Thienemanniella taurocapita		64			
03360	Plumatella sp	3 +	82220	Tvetenia discoloripes group		129			
11119	Plauditus dubius or P. virilis	180 +	82820	Cryptochironomus sp		+			
11130	Baetis intercalaris	676 +	83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)		+			
12200	Isonychia sp	2	84450	Polypedilum (Uresipedilum) flavum		1159 +			
13400	Stenacron sp	+	84470	Polypedilum (P.) illinoense		+			
13510	Maccaffertium exiguum	20 +	84520	Polypedilum (Tripodura) halterale group		+			
13521	Stenonema femoratum	+	85200	Cladotanytarsus sp		+			
13561	Maccaffertium pulchellum	108 +	85625	Rheotanytarsus sp		3862 +			
13570	Maccaffertium terminatum	+	85821	Tanytarsus glabrescens group sp 7		+			
16700	Tricorythodes sp	480 +	93900	Elimia sp		+			
17200	Caenis sp	+	97601	Corbicula fluminea		+			
18100	Anthopotamus sp	+	99240	Lasmigona complanata		+			
22001	Coenagrionidae	+							
22300	Argia sp	+							
24900	Gomphus sp	+	No. Quantitative Taxa: 30		Total Taxa: 56				
34700	Agnetina capitata complex	1	No. Qualitative Taxa: 44		ICI: 50				
45400	Trichocorixa sp	+	Number of Organisms: 12782		Qual EPT: 17				
50315	Chimarra obscura	63 +							
51206	Cynellus fraternus	8 +							
51600	Polycentropus sp	+							
52200	Cheumatopsyche sp	3695 +							
52430	Ceratopsyche morosa group	1702 +							
52510	Hydropsyche aerata	70							
53400	Protoptila sp	32 +							
53800	Hydroptila sp	+							
59500	Oecetis sp	8							
59970	Petrophila sp	116 +							
65800	Berosus sp	+							
68075	Psephenus herricki	+							
68601	Ancyronyx variegata	+							
68901	Macronychus glabratus	1							
69400	Stenelmis sp	1 +							
69713	Lutrochus laticeps	1							
72900	Culex sp	+							
74100	Simulium sp	1 +							
77750	Hayesomyia senata or Thienemannimyia norena	96							
78450	Nilotanypus fimbriatus	64							
78750	Rheopelopia paramaculipennis	96 +							
80001	Orthocladiinae	64							
80310	Cardiocladius obscurus	+							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM02</b>		Collection Date: 08/14/2012		River Code: 11-001		River: Little Miami River		RM: 24.10	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	509 +	82101	Thienemanniella taurocapita		+			
03360	Plumatella sp	7 +	82121	Thienemanniella lobapodema		16			
03600	Oligochaeta	+	82220	Tvetenia discoloripes group		42 +			
11119	Plauditus dubius or P. virilis	24 +	83000	Dicrotendipes sp		21			
11130	Baetis intercalaris	115 +	83040	Dicrotendipes neomodestus		247			
11670	Proclleon viridoculare	1	83300	Glyptotendipes (G.) sp		21			
12200	Isonychia sp	2	83310	Glyptotendipes (H.) chelonia		21			
13400	Stenacron sp	3 +	83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)		+			
13510	Maccaffertium exiguum	8 +	84000	Parachironomus sp		21			
13550	Maccaffertium mexicanum integrum	1	84450	Polypedilum (Uresipedilum) flavum		186 +			
13561	Maccaffertium pulchellum	110 +	84470	Polypedilum (P.) illinoense		+			
13570	Maccaffertium terminatum	4 +	84540	Polypedilum (Tripodura) scalaenum group		21			
16700	Tricorythodes sp	182 +	84960	Pseudochironomus sp		42			
18100	Anthopotamus sp	+	85625	Rheotanytarsus sp		413 +			
21300	Hetaerina sp	+	85800	Tanytarsus sp		21 +			
22001	Coenagrionidae	+	85821	Tanytarsus glabrescens group sp 7		225			
22300	Argia sp	3 +	93900	Elimia sp		2 +			
23804	Basiaeschna janata	+	95100	Physella sp		+			
42700	Belostoma sp	+	97601	Corbicula fluminea		3 +			
50315	Chimarra obscura	+	98600	Sphaerium sp		+			
51206	Cynellus fraternus	43	99240	Lasmigona complanata		+			
51300	Neureclipsis sp	8 +							
52200	Cheumatopsyche sp	1641 +							
52430	Ceratopsyche morosa group	131 +							
52510	Hydropsyche aerata	30	No. Quantitative Taxa: 44		Total Taxa: 63				
53501	Hydroptilidae	3	No. Qualitative Taxa: 40		ICI: 48				
59160	Ceraclea spongillovorax	3	Number of Organisms: 4489		Qual EPT: 12				
59500	Oecetis sp	1							
59970	Petrophila sp	92 +							
60900	Peltodytes sp	+							
68075	Psephenus herricki	+							
68901	Macronychus glabratus	9							
69400	Stenelmis sp	8 +							
74100	Simulium sp	+							
77130	Ablabesmyia rhamphe group	21							
77750	Hayesomyia senata or Thienemannimyia norena	83							
77800	Helopelopia sp	21							
78655	Procladius (Holotanypus) sp	+							
78750	Rheopelopia paramaculipennis	103							
80310	Cardiocladius obscurus	+							
80420	Cricotopus (C.) bicinctus	21							
81200	Nanocladius sp	+							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM01</b>		Collection Date: 08/14/2012		River Code: 11-001		River: Little Miami River		RM: 27.80	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	33 +	77750	Hayesomyia senata or		313			
03000	Extroprocta	3 +		Thienemannimyia norena					
03600	Oligochaeta	8	78655	Procladius (Holotanypus) sp				+	
06201	Hyalella azteca	1	78750	Rheopelopia paramaculipennis		45		+	
11020	Acerpenna pygmaea	1	81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"		22			
11119	Plauditus dubius or P. virilis	+	82101	Thienemanniella taurocapita		24			
11130	Baetis intercalaris	123 +	82820	Cryptochironomus sp				+	
11200	Callibaetis sp	+	83040	Dicrotendipes neomodestus		603		+	
11620	Paracloeodes sp 2	+	83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)				+	
12200	Isonychia sp	+	84450	Polypedilum (Uresipedilum) flavum		89			
13400	Stenacron sp	4 +	84470	Polypedilum (P.) illinoense				+	
13510	Maccaffertium exiguum	2	85265	Cladotanytarsus vanderwulpi group Type 5				+	
13521	Stenonema femoratum	1 +	85625	Rheotanytarsus sp		335		+	
13561	Maccaffertium pulchellum	26 +	85821	Tanytarsus glabrescens group sp 7		514			
13570	Maccaffertium terminatum	28 +	87540	Hemerodromia sp		8			
16700	Tricorythodes sp	336 +	93900	Elimia sp		9		+	
21300	Hetaerina sp	+	96900	Ferrissia sp				+	
22001	Coenagrionidae	+	97601	Corbicula fluminea				+	
22300	Argia sp	+	97710	Dreissena polymorpha				+	
26700	Macromia sp	+	99001	Unionidae				+	
27307	Epitheca (Epicordulia) princeps	+							
29100	Tramea sp	+							
42700	Belostoma sp	+							
50315	Chimarra obscura	+	No. Quantitative Taxa:		31	Total Taxa:		62	
51206	Cynellus fraternus	1	No. Qualitative Taxa:		48	ICI:		44	
51300	Neureclipsis sp	+	Number of Organisms:		3139	Qual EPT:		19	
51600	Polycentropus sp	1 +							
52200	Cheumatopsyche sp	520 +							
52430	Ceratopsyche morosa group	46 +							
52510	Hydropsyche aerata	+							
53400	Protophila sp	+							
53800	Hydroptila sp	16 +							
59160	Ceraclea spongillovorax	1							
59580	Oecetis persimilis	+							
59970	Petrophila sp	3 +							
60900	Peltodytes sp	+							
65800	Berosus sp	+							
68075	Psephenus herricki	+							
68901	Macronychus glabratus	+							
69400	Stenelmis sp	+							
69713	Lutrochus laticeps	1							
74501	Ceratopogonidae	+							
77120	Ablabesmyia mallochi	22							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM98**      Collection Date: 08/25/2012   River Code: 11-002   River: Clough Creek      RM: 0.40

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	+				
22300	Argia sp	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52430	Ceratopsyche morosa group	+				
52530	Hydropsyche depravata group	+				
53800	Hydroptila sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
74100	Simulium sp	+				
79100	Thienemannimyia group	+				
82820	Cryptochironomus sp	+				
83040	Dicrotendipes neomodestus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
85625	Rheotanytarsus sp	+				
85800	Tanytarsus sp	+				

No. Quantitative Taxa:	0	Total Taxa:	19
No. Qualitative Taxa:	19	ICI:	G
Number of Organisms:	0	Qual EPT:	8

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM97</b>		Collection Date: 08/28/2012		River Code: 11-002		River: Clough Creek		RM: 1.20		
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.				
01801	Turbellaria	+								
03600	Oligochaeta	4								
11120	Baetis flavistriga	11 +								
11130	Baetis intercalaris	43 +								
13521	Stenonema femoratum	+								
21200	Calopteryx sp	+								
22001	Coenagrionidae	+								
50315	Chimarra obscura	81 +								
52200	Cheumatopsyche sp	245 +								
52430	Ceratopsyche morosa group	52 +								
52530	Hydropsyche depravata group	61 +								
53800	Hydroptila sp	4								
66500	Enochrus sp	4								
68075	Psephenus herricki	+								
68130	Helichus sp	+								
74100	Simulium sp	1								
77120	Ablabesmyia mallochi	+								
77750	Hayesomyia senata or Thienemannimyia norena	4								
78599	Pentaneura sp	4 +								
83040	Dicrotendipes neomodestus	9 +								
83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)	18								
83840	Microtendipes pedellus group	+								
84450	Polypedilum (Uresipedilum) flavum	215 +								
84470	Polypedilum (P.) illinoense	4 +								
84540	Polypedilum (Tripodura) scalaenum group	9								
85625	Rheotanytarsus sp	58								
85800	Tanytarsus sp	+								
85821	Tanytarsus glabrescens group sp 7	4								
<hr/>										
No. Quantitative Taxa:	19	Total Taxa:	28							
No. Qualitative Taxa:	19	ICI:	34							
Number of Organisms:	831	Qual EPT:	7							



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM96**      Collection Date: 07/30/2012   River Code: 11-002   River: Clough Creek      RM: 3.10

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
11120	Baetis flavistriga	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52430	Ceratopsyche morosa group	+				
52530	Hydropsyche depravata group	+				
53800	Hydroptila sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
74100	Simulium sp	+				
79100	Thienemannimyia group	+				
80411	Cricotopus (C.) sp nr. absurdus	+				
83040	Dicrotendipes neomodestus	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84960	Pseudochironomus sp	+				
85001	Tanytarsini	+				
85625	Rheotanytarsus sp	+				
85821	Tanytarsus glabrescens group sp 7	+				

No. Quantitative Taxa:	0	Total Taxa:	19
No. Qualitative Taxa:	19	ICI:	G
Number of Organisms:	0	Qual EPT:	6

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM95**      Collection Date: 07/30/2012   River Code: 11-002   River: Clough Creek      RM: 3.20

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
05800	Caecidotea sp	+				
06810	Gammarus fasciatus	+				
11120	Baetis flavistriga	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
77500	Conchapelopia sp	+				
78599	Pentaneura sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
85625	Rheotanytarsus sp	+				

No. Quantitative Taxa:	0	Total Taxa:	11
No. Qualitative Taxa:	11	ICI:	F
Number of Organisms:	0	Qual EPT:	3

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM99**      Collection Date: 07/25/2012   River Code: 11-002   River: Clough Creek      RM: 4.60

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
11120	Baetis flavistriga	+				
21200	Calopteryx sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
81650	Parametrioctenus sp	+				
83040	Dicrotendipes neomodestus	+				
83840	Microtendipes pedellus group	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
85625	Rheotanytarsus sp	+				
96120	Menetus (Micromenetus) dilatatus	+				

No. Quantitative Taxa:	0	Total Taxa:	13
No. Qualitative Taxa:	13	ICI:	F
Number of Organisms:	0	Qual EPT:	3

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM94**      Collection Date: 07/31/2012   River Code: 11-003   River: McCullough Run      RM: 1.30

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
04901	Erpobdellidae	+				
08200	Orconectes sp	+				
21200	Calopteryx sp	+				
22001	Coenagrionidae	+				
65510	Hydrobiinae	+				
69400	Stenelmis sp	+				
77500	Conchapelopia sp	+				
83040	Dicrotendipes neomodestus	+				
95100	Physella sp	+				

No. Quantitative Taxa:	0	Total Taxa:	9
No. Qualitative Taxa:	9	ICI:	VP
Number of Organisms:	0	Qual EPT:	0

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM79**      Collection Date: 08/20/2012   River Code: 11-004   River: Duck Creek      RM: 0.90

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
82730	Chironomus (C.) decorus group	+				
84470	Polypedilum (P.) illinoense	+				
96100	Menetus (Micromenetus) sp	+				

No. Quantitative Taxa:	0	Total Taxa:	5
No. Qualitative Taxa:	5	ICI:	VP
Number of Organisms:	0	Qual EPT:	0

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM77**      Collection Date: 08/20/2012   River Code: 11-004   River: Duck Creek      RM: 1.80

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
04901	Erpobdellidae	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
22001	Coenagrionidae	+				
27500	Somatochlora sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
77120	Ablabesmyia mallochi	+				
77500	Conchapelopia sp	+				
78655	Procladius (Holotanypus) sp	+				
80420	Cricotopus (C.) bicinctus	+				
82730	Chironomus (C.) decorus group	+				
82820	Cryptochironomus sp	+				
83003	Dicrotendipes fumidus	+				
83040	Dicrotendipes neomodestus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84470	Polypedilum (P.) illinoense	+				
84540	Polypedilum (Tripodura) scalaenum group	+				

No. Quantitative Taxa:	0	Total Taxa:	20
No. Qualitative Taxa:	20	ICI:	F
Number of Organisms:	0	Qual EPT:	4

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM76**      Collection Date: 08/20/2012   River Code: 11-004   River: Duck Creek      RM: 2.90

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	65 +				
03600	Oligochaeta	13 +				
04663	Helobdella papillata	+				
04964	Mooreobdella microstoma	1 +				
05800	Caecidotea sp	3				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
21200	Calopteryx sp	+				
22001	Coenagrionidae	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
53800	Hydroptila sp	+				
72150	Pericoma sp	3				
72700	Anopheles sp	+				
74100	Simulium sp	+				
74501	Ceratopogonidae	3				
77120	Ablabesmyia mallochi	+				
77500	Conchapelopia sp	13				
80420	Cricotopus (C.) bicinctus	+				
83040	Dicrotendipes neomodestus	55				
84315	Phaenopsectra flavipes	4				
84450	Polypedilum (Uresipedilum) flavum	170 +				
84470	Polypedilum (P.) illinoense	8 +				
84960	Pseudochironomus sp	8				
85821	Tanytarsus glabrescens group sp 7	102				
86501	Stratiomyidae	8				
95100	Physella sp	+				

No. Quantitative Taxa:	14	Total Taxa:	27
No. Qualitative Taxa:	18	ICI:	18
Number of Organisms:	456	Qual EPT:	5

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM75**      Collection Date: 09/19/2012   River Code: 11-004   River: Duck Creek      RM: 3.30

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
04901	Erpobdellidae	+				
06904	Synurella dentata	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
21200	Calopteryx sp	+				
21300	Hetaerina sp	+				
22001	Coenagrionidae	+				
22300	Argia sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
63900	Laccophilus sp	+				
66500	Enochrus sp	+				
80420	Cricotopus (C.) bicinctus	+				
84470	Polypedilum (P.) illinoense	+				
95100	Physella sp	+				

No. Quantitative Taxa:	0	Total Taxa:	17
No. Qualitative Taxa:	17	ICI:	F
Number of Organisms:	0	Qual EPT:	4



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM73**      Collection Date: 09/09/2012   River Code: 11-004   River: Duck Creek      RM: 4.40

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
11120	Baetis flavistriga	+				
52200	Cheumatopsyche sp	+				
68130	Helichus sp	+				
69400	Stenelmis sp	+				
77500	Conchapelopia sp	+				
80415	Cricotopus (C.) absurdus	+				
80420	Cricotopus (C.) bicinctus	+				
83003	Dicrotendipes fumidus	+				
83040	Dicrotendipes neomodestus	+				
84470	Polypedilum (P.) illinoense	+				

No. Quantitative Taxa:	0	Total Taxa:	12
No. Qualitative Taxa:	12	ICI:	P
Number of Organisms:	0	Qual EPT:	2

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM72**      Collection Date: 09/19/2012 River Code: 11-004 River: Duck Creek      RM: 4.60

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
04666	Helobdella papillata	+				
04960	Mooreobdella sp	+				
05900	Lirceus sp	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
21200	Calopteryx sp	+				
22001	Coenagrionidae	+				
22300	Argia sp	+				
28810	Pantala flavescens	+				
63900	Laccophilus sp	+				
66500	Enochrus sp	+				
67800	Tropisternus sp	+				
77500	Conchapelopia sp	+				
77750	Hayesomyia senata or Thienemannimyia norena	+				
80420	Cricotopus (C.) bicinctus	+				
80470	Cricotopus (C.) or Orthocladius (O.) sp	+				
82710	Chironomus (C.) sp	+				
82730	Chironomus (C.) decorus group	+				
83003	Dicrotendipes fumidus	+				
83040	Dicrotendipes neomodestus	+				
84470	Polypedilum (P.) illinoense	+				
95100	Physella sp	+				

No. Quantitative Taxa:	0	Total Taxa:	24
No. Qualitative Taxa:	24	ICI:	P
Number of Organisms:	0	Qual EPT:	2

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM78**      Collection Date: 09/22/2012   River Code: 11-004   River: Duck Creek      RM: 5.20

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
53800	Hydroptila sp	+				
72101	Psychodidae	+				
80411	Cricotopus (C.) sp nr. absurdus	+				
80420	Cricotopus (C.) bicinctus	+				
80430	Cricotopus (C.) tremulus group	+				
80510	Cricotopus (Isocladius) sylvestris group	+				
83040	Dicrotendipes neomodestus	+				
84470	Polypedilum (P.) illinoense	+				
95100	Physella sp	+				

No. Quantitative Taxa: 0      Total Taxa: 10  
 No. Qualitative Taxa: 10      ICI: VP  
 Number of Organisms: 0      Qual EPT: 1

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM71**      Collection Date: 09/23/2012   River Code: 11-004   River: Duck Creek      RM: 6.00

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
04960	Mooreobdella sp	+				
82710	Chironomus (C.) sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84470	Polypedilum (P.) illinoense	+				
95100	Physella sp	+				

No. Quantitative Taxa: 0      Total Taxa: 8  
 No. Qualitative Taxa: 8      ICI: VP  
 Number of Organisms: 0      Qual EPT: 0

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM67**      Collection Date: 07/17/2012   River Code: 11-005   River: Dry Run      RM: 2.50

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05800	Caecidotea sp	+				
06810	Gammarus fasciatus	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	+				
50315	Chimarra obscura	+				
51600	Polycentropus sp	+				
52200	Cheumatopsyche sp	+				
52430	Ceratopsyche morosa group	+				
52530	Hydropsyche depravata group	+				
68075	Psephenus herricki	+				
68700	Dubiraphia sp	+				
68901	Macronychus glabratus	+				
69400	Stenelmis sp	+				
74100	Simulium sp	+				
77800	Helopelopia sp	+				
78655	Procladius (Holotanypus) sp	+				
83840	Microtendipes pedellus group	+				
84450	Polypedilum (Uresipedilum) flavum	+				
85625	Rheotanytarsus sp	+				
85821	Tanytarsus glabrescens group sp 7	+				
95100	Physella sp	+				

No. Quantitative Taxa: 0      Total Taxa: 24

No. Qualitative Taxa: 24      ICI: G

Number of Organisms: 0      Qual EPT: 8

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM66**      Collection Date: 07/17/2012   River Code: 11-005   River: Dry Run      RM: 4.10

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
05800	Caecidotea sp	+				
06904	Synurella dentata	+				
11120	Baetis flavistriga	+				
13521	Stenonema femoratum	+				
51600	Polycentropus sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
53800	Hydroptila sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
74100	Simulium sp	+				
78599	Pentaneura sp	+				
80001	Orthoclaadiinae	+				
83840	Microtendipes pedellus group	+				
84450	Polypedilum (Uresipedilum) flavum	+				
85625	Rheotanytarsus sp	+				
85800	Tanytarsus sp	+				
94400	Fossaria sp	+				

No. Quantitative Taxa:	0	Total Taxa:	19
No. Qualitative Taxa:	19	ICI:	G
Number of Organisms:	0	Qual EPT:	6

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM70**      Collection Date: 07/31/2012   River Code: 11-005   River: Dry Run      RM: 5.60

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
03600	Oligochaeta	+				
06700	Crangonyx sp	+				
11120	Baetis flavistriga	+				
50301	Chimarra aterrima	+				
52200	Cheumatopsyche sp	+				
53501	Hydroptilidae	+				
71900	Tipula sp	+				
80420	Cricotopus (C.) bicinctus	+				
83040	Dicrotendipes neomodestus	+				
83840	Microtendipes pedellus group	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84470	Polypedilum (P.) illinoense	+				
85500	Paratanytarsus sp	+				
85625	Rheotanytarsus sp	+				
95100	Physella sp	+				

No. Quantitative Taxa: 0      Total Taxa: 15

No. Qualitative Taxa: 15      ICI:

Number of Organisms: 0      Qual EPT: 4

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM52</b>		Collection Date: 08/05/2012		River Code: 11-007		River: Sycamore Creek		RM: 0.20			
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.					
03600	Oligochaeta	+									
06201	Hyalella azteca	+									
11130	Baetis intercalaris	+									
13521	Stenonema femoratum	+									
17200	Caenis sp	+									
22300	Argia sp	+									
50315	Chimarra obscura	+									
51300	Neureclipsis sp	+									
52200	Cheumatopsyche sp	+									
52430	Ceratopsyche morosa group	+									
52530	Hydropsyche depravata group	+									
68075	Psephenus herricki	+									
69400	Stenelmis sp	+									
72700	Anopheles sp	+									
77500	Conchapelopia sp	+									
77750	Hayesomyia senata or Thienemannimyia norena	+									
80420	Cricotopus (C.) bicinctus	+									
81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"	+									
82730	Chironomus (C.) decorus group	+									
82820	Cryptochironomus sp	+									
83040	Dicrotendipes neomodestus	+									
83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)	+									
84450	Polypedilum (Uresipedilum) flavum	+									
84470	Polypedilum (P.) illinoense	+									
85625	Rheotanytarsus sp	+									
85821	Tanytarsus glabrescens group sp 7	+									
95100	Physella sp	+									
<hr/>											
No. Quantitative Taxa:	0	Total Taxa:	27								
No. Qualitative Taxa:	27	ICI:	MG								
Number of Organisms:	0	Qual EPT:	8								



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM51</b>		Collection Date: 08/15/2012		River Code: 11-007		River: Sycamore Creek		RM: 0.30	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01320	Hydra sp	8							
01801	Turbellaria	1 +							
02600	Nematomorpha	+							
03600	Oligochaeta	+							
11001	Baetidae	8							
11120	Baetis flavistriga	+							
11130	Baetis intercalaris	+							
13521	Stenonema femoratum	43 +							
17200	Caenis sp	1 +							
22300	Argia sp	+							
50301	Chimarra aterrima	+							
50315	Chimarra obscura	+							
51300	Neureclipsis sp	+							
52001	Hydropsychidae	8							
52200	Cheumatopsyche sp	+							
52430	Ceratopsyche morosa group	+							
52530	Hydropsyche depravata group	+							
53800	Hydroptila sp	+							
68075	Psephenus herricki	+							
68700	Dubiraphia sp	1							
69400	Stenelmis sp	+							
74650	Atrichopogon sp	+							
77120	Ablabesmyia mallochii	106							
77500	Conchapelopia sp	+							
77800	Helopelopia sp	+							
78450	Nilotanypus fimbriatus	+							
78750	Rheopelopia paramaculipennis	+							
82730	Chironomus (C.) decorus group	71							
82820	Cryptochironomus sp	18							
83040	Dicrotendipes neomodestus	901 +							
83840	Microtendipes pedellus group	+							
84210	Paratendipes albimanus or P. duplicatus	124							
84300	Phaenopsectra obediens group	+							
84315	Phaenopsectra flavipes	106							
84450	Polypedilum (Uresipedilum) flavum	+							
85800	Tanytarsus sp	18 +							

No. Quantitative Taxa:	14	Total Taxa:	36
No. Qualitative Taxa:	27	ICI:	24
Number of Organisms:	1414	Qual EPT:	11

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM50**      Collection Date: 08/05/2012   River Code: 11-007   River: Sycamore Creek      RM: 1.10

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	133 +				
03600	Oligochaeta	+				
08200	Orconectes sp	+				
11120	Baetis flavistriga	8 +				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	34 +				
22300	Argia sp	10 +				
50315	Chimarra obscura	+				
51600	Polycentropus sp	1				
52200	Cheumatopsyche sp	+				
52430	Ceratopsyche morosa group	+				
52530	Hydropsyche depravata group	+				
53800	Hydroptila sp	64				
59970	Petrophila sp	+				
68075	Psephenus herricki	2 +				
69400	Stenelmis sp	8				
72700	Anopheles sp	+				
77001	Tanypodinae	+				
77500	Conchapelopia sp	64				
77800	Helopelopia sp	38				
82100	Thienemanniella sp	26				
82710	Chironomus (C.) sp	+				
83040	Dicrotendipes neomodestus	639 +				
84210	Paratendipes albimanus or P. duplicatus	38 +				
84300	Phaenopsectra obediens group	13				
84450	Polypedilum (Uresipedilum) flavum	77 +				
84960	Pseudochironomus sp	26				
85625	Rheotanytarsus sp	+				

No. Quantitative Taxa: 16      Total Taxa: 28  
 No. Qualitative Taxa: 20      ICI: 24  
 Number of Organisms: 1181      Qual EPT: 7

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM49</b>		Collection Date: 08/05/2012		River Code: 11-007		River: Sycamore Creek		RM: 1.50	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	1 +							
03600	Oligochaeta	+							
05800	Caecidotea sp	+							
08601	Hydrachnidia	4							
11120	Baetis flavistriga	+							
13521	Stenonema femoratum	1 +							
15000	Paraleptophlebia sp	+							
16700	Tricorythodes sp	1							
17200	Caenis sp	+							
22300	Argia sp	+							
50301	Chimarra aterrima	+							
50315	Chimarra obscura	+							
52200	Cheumatopsyche sp	2 +							
52430	Ceratopsyche morosa group	+							
52530	Hydropsyche depravata group	+							
68075	Psephenus herricki	+							
69400	Stenelmis sp	+							
77120	Ablabesmyia mallochi	14 +							
78200	Larsia sp	1							
78450	Nilotanytus fimbriatus	+							
83040	Dicrotendipes neomodestus	35 +							
83840	Microtendipes pedellus group	+							
84210	Paratendipes albimanus or P. duplicatus	+							
84315	Phaenopsectra flavipes	5							
84450	Polypedilum (Uresipedilum) flavum	+							
85625	Rheotanytarsus sp	2							
<hr/>									
No. Quantitative Taxa:	10	Total Taxa:	26						
No. Qualitative Taxa:	21	ICI:	24						
Number of Organisms:	66	Qual EPT:	9						

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM48**      Collection Date: 09/05/2012   River Code: 11-007   River: Sycamore Creek      RM: 2.40

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05800	Caecidotea sp	+				
06700	Crangonyx sp	+				
11120	Baetis flavistriga	+				
13521	Stenonema femoratum	+				
21200	Calopteryx sp	+				
50301	Chimarra aterrima	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68025	Ectopria sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
71900	Tipula sp	+				
77120	Ablabesmyia mallochi	+				
77500	Conchapelopia sp	+				
77800	Helopelopia sp	+				
83040	Dicrotendipes neomodestus	+				
83840	Microtendipes pedellus group	+				
84315	Phaenopsectra flavipes	+				
85625	Rheotanytarsus sp	+				
94400	Fossaria sp	+				

No. Quantitative Taxa:	0	Total Taxa:	22
No. Qualitative Taxa:	22	ICI:	MG
Number of Organisms:	0	Qual EPT:	5

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM47**      Collection Date: 09/15/2012 River Code: 11-007 River: Sycamore Creek      RM: 3.60

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05800	Caecidotea sp	+				
06700	Crangonyx sp	+				
07701	Cambaridae	+				
21200	Calopteryx sp	+				
28001	Libellulidae	+				
50301	Chimarra aterrima	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
69400	Stenelmis sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84470	Polypedilum (P.) illinoense	+				
85625	Rheotanytarsus sp	+				

No. Quantitative Taxa: 0      Total Taxa: 15

No. Qualitative Taxa: 15      ICI: F

Number of Organisms: 0      Qual EPT: 3

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM61**      Collection Date: 08/23/2012   River Code: 11-008   River: North Branch Sycamore   RM: 0.05

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	2 +				
03600	Oligochaeta	1 +				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	6 +				
13400	Stenacron sp	3				
13521	Stenonema femoratum	58 +				
17200	Caenis sp	1 +				
21200	Calopteryx sp	1 +				
22300	Argia sp	7 +				
50315	Chimarra obscura	1 +				
52200	Cheumatopsyche sp	8 +				
52430	Ceratopsyche morosa group	+				
52530	Hydropsyche depravata group	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
77120	Ablabesmyia mallochi	2 +				
77500	Conchapelopia sp	5 +				
77750	Hayesomyia senata or Thienemannimyia norena	5 +				
77800	Helopelopia sp	7 +				
78450	Nilotanytus fimbriatus	2 +				
82141	Thienemanniella xena	2				
83040	Dicrotendipes neomodestus	5 +				
83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)	2 +				
84300	Phaenopsectra obediens group	9				
84450	Polypedilum (Uresipedilum) flavum	7 +				
84460	Polypedilum (P.) fallax group	21				
85625	Rheotanytarsus sp	+				
85800	Tanytarsus sp	2 +				

No. Quantitative Taxa:	22	Total Taxa:	28
No. Qualitative Taxa:	24	ICI:	36
Number of Organisms:	157	Qual EPT:	8

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM60**      Collection Date: 08/21/2012   River Code: 11-008   River: North Branch Sycamore   RM: 0.50

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05800	Caecidotea sp	3				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	26 +				
17200	Caenis sp	6 +				
22001	Coenagrionidae	+				
22300	Argia sp	+				
50315	Chimarra obscura	+				
51300	Neureclipsis sp	+				
52001	Hydropsychidae	8				
52200	Cheumatopsyche sp	+				
52430	Ceratopsyche morosa group	+				
52530	Hydropsyche depravata group	+				
59970	Petrophila sp	1 +				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
77120	Ablabesmyia mallochi	11 +				
77500	Conchapelopia sp	+				
77750	Hayesomyia senata or Thienemannimyia norena	14				
77800	Helopelopia sp	7 +				
80420	Cricotopus (C.) bicinctus	+				
82880	Cryptotendipes sp	4				
83040	Dicrotendipes neomodestus	104				
83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)	18				
84210	Paratendipes albimanus or P. duplicatus	29 +				
84300	Phaenopsectra obediens group	4				
84315	Phaenopsectra flavipes	7				
84450	Polypedilum (Uresipedilum) flavum	+				
84540	Polypedilum (Tripodura) scalaenum group	14				
85720	Stempellinella n.sp nr. flavidula	7				
85800	Tanytarsus sp	+				
85821	Tanytarsus glabrescens group sp 7	79				

No. Quantitative Taxa:	17	Total Taxa:	34
No. Qualitative Taxa:	23	ICI:	34
Number of Organisms:	342	Qual EPT:	9

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM59**      Collection Date: 08/28/2012   River Code: 11-008   River: North Branch Sycamore   RM: 2.00

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	+				
17200	Caenis sp	+				
22300	Argia sp	+				
50301	Chimarra aterrima	+				
50315	Chimarra obscura	+				
51600	Polycentropus sp	+				
52200	Cheumatopsyche sp	+				
52430	Ceratopsyche morosa group	+				
68075	Psephenus herricki	+				
77120	Ablabesmyia mallochi	+				
77500	Conchapelopia sp	+				
77800	Helopelopia sp	+				
83040	Dicrotendipes neomodestus	+				
83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)	+				
85800	Tanytarsus sp	+				

No. Quantitative Taxa:	0	Total Taxa:	18
No. Qualitative Taxa:	18	ICI:	G
Number of Organisms:	0	Qual EPT:	9



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM58**      Collection Date: 07/16/2012   River Code: 11-008   River: North Branch Sycamore   RM: 3.70

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05800	Caecidotea sp	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	+				
21200	Calopteryx sp	+				
22001	Coenagrionidae	+				
22300	Argia sp	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52430	Ceratopsyche morosa group	+				
52530	Hydropsyche depravata group	+				
59970	Petrophila sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
74100	Simulium sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
85800	Tanytarsus sp	+				

No. Quantitative Taxa:	0	Total Taxa:	19
No. Qualitative Taxa:	19	ICI:	G
Number of Organisms:	0	Qual EPT:	7

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM57**      Collection Date: 08/31/2012   River Code: 11-008   River: North Branch Sycamore   RM: 5.00

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
04935	Erpobdella punctata punctata	+				
05800	Caecidotea sp	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	+				
21200	Calopteryx sp	+				
22300	Argia sp	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68075	Psephenus herricki	+				
74100	Simulium sp	+				
77500	Conchapelopia sp	+				
77800	Helopelopia sp	+				
84300	Phaenopsectra obediens group	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84540	Polypedilum (Tripodura) scalaenum group	+				
85625	Rheotanytarsus sp	+				
85821	Tanytarsus glabrescens group sp 7	+				

No. Quantitative Taxa:	0	Total Taxa:	21
No. Qualitative Taxa:	21	ICI:	G
Number of Organisms:	0	Qual EPT:	6

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM40</b>			Collection Date: 08/14/2012 River Code: 11-009 River: Polk Run		RM: 0.30	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
06904	Synurella dentata	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	30 +				
21200	Calopteryx sp	+				
22001	Coenagrionidae	+				
22300	Argia sp	+				
50315	Chimarra obscura	+				
51600	Polycentropus sp	+				
52200	Cheumatopsyche sp	+				
52430	Ceratopsyche morosa group	+				
53800	Hydroptila sp	5 +				
68025	Ectopria sp	1				
68075	Psephenus herricki	1 +				
68601	Ancyronyx variegata	+				
69400	Stenelmis sp	12 +				
77120	Ablabesmyia mallochi	62 +				
77500	Conchapelopia sp	10 +				
77750	Hayesomyia senata or Thienemannimyia norena	21 +				
77800	Helopelopia sp	31				
80430	Cricotopus (C.) tremulus group	21				
82820	Cryptochironomus sp	21				
82880	Cryptotendipes sp	+				
83040	Dicrotendipes neomodestus	145 +				
83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)	+				
84210	Paratendipes albimanus or P. duplicatus	176 +				
84300	Phaenopsectra obediens group	31 +				
84315	Phaenopsectra flavipes	41				
84460	Polypedilum (P.) fallax group	31				
84470	Polypedilum (P.) illinoense	+				
84960	Pseudochironomus sp	21				
85500	Paratanytarsus sp	21				
85821	Tanytarsus glabrescens group sp 7	166				
85840	Tanytarsus sepp	10				
95100	Physella sp	+				

No. Quantitative Taxa:	20	Total Taxa:	35
No. Qualitative Taxa:	25	ICI:	28
Number of Organisms:	857	Qual EPT:	7

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM39**      Collection Date: 08/17/2012   River Code: 11-009   River: Polk Run      RM: 3.00

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
03600	Oligochaeta	+				
05800	Caecidotea sp	+				
06201	Hyalella azteca	+				
06904	Synurella dentata	+				
11120	Baetis flavistriga	+				
21200	Calopteryx sp	+				
22300	Argia sp	+				
27500	Somatochlora sp	+				
50301	Chimarra aterrima	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52430	Ceratopsyche morosa group	+				
52530	Hydropsyche depravata group	+				
74100	Simulium sp	+				
81650	Parametricnemus sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
96900	Ferrissia sp	+				

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No. Quantitative Taxa:	0	Total Taxa:	17
No. Qualitative Taxa:	17	ICI:	G
Number of Organisms:	0	Qual EPT:	6

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM46**      Collection Date: 09/17/2012   River Code: 11-009   River: Polk Run      RM: 3.20

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
03600	Oligochaeta	+				
05900	Lirceus sp	+				
06700	Crangonyx sp	+				
11120	Baetis flavistriga	+				
21200	Calopteryx sp	+				
22300	Argia sp	+				
50301	Chimarra aterrima	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68025	Ectopria sp	+				
69400	Stenelmis sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
85625	Rheotanytarsus sp	+				
96900	Ferrissia sp	+				

No. Quantitative Taxa:	0	Total Taxa:	16
No. Qualitative Taxa:	16	ICI:	MG
Number of Organisms:	0	Qual EPT:	5

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM38</b>		Collection Date: 08/28/2012		River Code: 11-010		River: O'Bannon Creek		RM: 0.10	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	+	52530	Hydropsyche depravata group		+			
01801	Turbellaria	+	53800	Hydroptila sp		+			
04935	Erpobdella punctata punctata	+	53800	Hydroptila sp		+			
04935	Erpobdella punctata punctata	+	67800	Tropisternus sp		+			
11130	Baetis intercalaris	+	67800	Tropisternus sp		+			
11130	Baetis intercalaris	+	68075	Psephenus herricki		+			
11251	Centroptilum sp (w/ hindwing pads)	+	68075	Psephenus herricki		+			
11251	Centroptilum sp (w/ hindwing pads)	+	69400	Stenelmis sp		+			
12200	Isonychia sp	+	69400	Stenelmis sp		+			
12200	Isonychia sp	+	71900	Tipula sp		+			
13400	Stenacron sp	+	71900	Tipula sp		+			
13400	Stenacron sp	+	77800	Helopelopia sp		+			
13521	Stenonema femoratum	+	77800	Helopelopia sp		+			
13521	Stenonema femoratum	+	83040	Dicrotendipes neomodestus		+			
13561	Maccaffertium pulchellum	+	83040	Dicrotendipes neomodestus		+			
13561	Maccaffertium pulchellum	+	84450	Polypedilum (Uresipedilum) flavum		+			
17200	Caenis sp	+	84450	Polypedilum (Uresipedilum) flavum		+			
17200	Caenis sp	+	84540	Polypedilum (Tripodura) scalaenum group		+			
21200	Calopteryx sp	+	84540	Polypedilum (Tripodura) scalaenum group		+			
21200	Calopteryx sp	+							
21300	Hetaerina sp	+	94400	Fossaria sp		+			
21300	Hetaerina sp	+	94400	Fossaria sp		+			
22001	Coenagrionidae	+	95100	Physella sp		+			
22001	Coenagrionidae	+	95100	Physella sp		+			
22300	Argia sp	+							
22300	Argia sp	+							
27600	Epitheca (Tetragoneuria) sp	+	No. Quantitative Taxa: 0		Total Taxa: 66				
27600	Epitheca (Tetragoneuria) sp	+	No. Qualitative Taxa: 66		ICI: G				
34700	Agnetina capitata complex	+	Number of Organisms: 0		Qual EPT: 32				
34700	Agnetina capitata complex	+							
50315	Chimarra obscura	+							
50315	Chimarra obscura	+							
51206	Cynellus fraternus	+							
51206	Cynellus fraternus	+							
51300	Neureclipsis sp	+							
51300	Neureclipsis sp	+							
51600	Polycentropus sp	+							
51600	Polycentropus sp	+							
52200	Cheumatopsyche sp	+							
52200	Cheumatopsyche sp	+							
52430	Ceratopsyche morosa group	+							
52430	Ceratopsyche morosa group	+							
52530	Hydropsyche depravata group	+							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM37**      Collection Date: 08/28/2012   River Code: 11-010   River: O'Bannon Creek      RM: 1.90

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	27				
11120	Baetis flavistriga	5				
11130	Baetis intercalaris	1119				
13400	Stenacron sp	+				
13521	Stenonema femoratum	+				
17200	Caenis sp	+				
21200	Calopteryx sp	+				
22001	Coenagrionidae	+				
22300	Argia sp	+				
23804	Basiaeschna janata	+				
28500	Libellula sp	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	7				
52430	Ceratopsyche morosa group	243				
52530	Hydropsyche depravata group	108				
53800	Hydroptila sp	+				
59970	Petrophila sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
74100	Simulium sp	+				
77500	Conchapelopia sp	72				
78350	Meropelopia sp	+				
82820	Cryptochironomus sp	+				
84450	Polypedilum (Uresipedilum) flavum	181				
85615	Rheotanytarsus pellucidus	3				
85625	Rheotanytarsus sp	16				
97601	Corbicula fluminea	+				

No. Quantitative Taxa:	10	Total Taxa:	27
No. Qualitative Taxa:	23	ICI:	34
Number of Organisms:	1781	Qual EPT:	9

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM103**      Collection Date: 07/23/2012   River Code: 11-047   River: Trib. to Little Miami R. (RM)   RM:      0.10

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
21200	Calopteryx sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
67800	Tropisternus sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
85625	Rheotanytarsus sp	+				
87400	Stratiomys sp	+				

No. Quantitative Taxa: 0      Total Taxa: 10  
 No. Qualitative Taxa: 10      ICI: P  
 Number of Organisms: 0      Qual EPT: 2



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM53**      Collection Date: 08/23/2012   River Code: 11-049   River: Trib. to Sycamore Creek (RM RM: 0.10

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	12 +				
03600	Oligochaeta	2				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	21 +				
17200	Caenis sp	+				
22300	Argia sp	1 +				
50301	Chimarra aterrima	+				
50315	Chimarra obscura	+				
52430	Ceratopsyche morosa group	+				
52530	Hydropsyche depravata group	+				
59970	Petrophila sp	+				
68075	Psephenus herricki	+				
77120	Ablabesmyia mallochi	23				
77500	Conchapelopia sp	2				
77800	Helopelopia sp	7				
78140	Labrundinia pilosella	9				
80410	Cricotopus (C.) sp	+				
80430	Cricotopus (C.) tremulus group	2				
82820	Cryptochironomus sp	9 +				
83040	Dicrotendipes neomodestus	124 +				
83900	Nilothauma sp	2				
84210	Paratendipes albimanus or P. duplicatus	2 +				
84300	Phaenopsectra obediens group	9 +				
84450	Polypedilum (Uresipedilum) flavum	2 +				
84460	Polypedilum (P.) fallax group	5				
84540	Polypedilum (Tripodura) scalaenum group	19				
85500	Paratanytarsus sp	5				
85821	Tanytarsus glabrescens group sp 7	28 +				
98001	Sphaeriidae	+				

No. Quantitative Taxa: 19      Total Taxa: 30

No. Qualitative Taxa: 20      ICI: 22

Number of Organisms: 284      Qual EPT: 8

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM56**      Collection Date: 09/14/2012   River Code: 11-049   River: Trib. to Sycamore Creek (RM RM:      0.30

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05800	Caecidotea sp	+				
06810	Gammarus fasciatus	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	+				
22001	Coenagrionidae	+				
22300	Argia sp	+				
50301	Chimarra aterrima	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
53501	Hydroptilidae	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
77500	Conchapelopia sp	+				
78599	Pentaneura sp	+				
85625	Rheotanytarsus sp	+				

No. Quantitative Taxa:	0	Total Taxa:	19
No. Qualitative Taxa:	19	ICI:	G
Number of Organisms:	0	Qual EPT:	8

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM55**      Collection Date: 09/21/2012   River Code: 11-049   River: Trib. to Sycamore Creek (RM RM: 1.00

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05800	Caecidotea sp	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	+				
21200	Calopteryx sp	+				
22300	Argia sp	+				
50301	Chimarra aterrima	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
59970	Petrophila sp	+				
68025	Ectopria sp	+				
68075	Psephenus herricki	+				
83040	Dicrotendipes neomodestus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84470	Polypedilum (P.) illinoense	+				
85001	Tanytarsini	+				

No. Quantitative Taxa:	0	Total Taxa:	19
No. Qualitative Taxa:	19	ICI:	G
Number of Organisms:	0	Qual EPT:	7

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM74**      Collection Date: 09/09/2012   River Code: 11-051   River: East Fork Duck Creek   RM: 0.15

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05900	Lirceus sp	+				
06700	Crangonyx sp	+				
11120	Baetis flavistriga	+				
21200	Calopteryx sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
78350	Meropelopia sp	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84470	Polypedilum (P.) illinoense	+				

No. Quantitative Taxa:	0	Total Taxa:	11
No. Qualitative Taxa:	11	ICI:	VP
Number of Organisms:	0	Qual EPT:	3

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM84**      Collection Date: 09/10/2012   River Code: 11-051   River: East Fork Duck Creek   RM: 0.60

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
06700	Crangonyx sp	+				
11120	Baetis flavistriga	+				
21200	Calopteryx sp	+				
84450	Polypedilum (Uresipedilum) flavum	+				
85625	Rheotanytarsus sp	+				

No. Quantitative Taxa:	0	Total Taxa:	7
No. Qualitative Taxa:	7	ICI:	VP
Number of Organisms:	0	Qual EPT:	1

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM85**      Collection Date: 09/10/2012   River Code: 11-051   River: East Fork Duck Creek   RM: 1.50

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
06700	Crangonyx sp	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84470	Polypedilum (P.) illinoense	+				
95100	Physella sp	+				

No. Quantitative Taxa: 0      Total Taxa: 6  
 No. Qualitative Taxa: 6      ICI: VP  
 Number of Organisms: 0      Qual EPT: 0

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM69**      Collection Date: 07/31/2012   River Code: 11-064   River: Trib. to Dry Run (RM 4.20)   RM: 0.10

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
06700	Crangonyx sp	+				
11120	Baetis flavistriga	+				
50301	Chimarra aterrima	+				
50315	Chimarra obscura	+				
51600	Polycentropus sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
53800	Hydroptila sp	+				
68025	Ectopria sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
74100	Simulium sp	+				
79400	Zavrelimyia sp	+				
83040	Dicrotendipes neomodestus	+				
83840	Microtendipes pedellus group	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
95100	Physella sp	+				

No. Quantitative Taxa:	0	Total Taxa:	20
No. Qualitative Taxa:	20	ICI:	G
Number of Organisms:	0	Qual EPT:	7

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM21**      Collection Date: 08/29/2012   River Code: 11-066   River: Trib to LMR at RM 13.1   RM: 1.50

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05900	Lirceus sp	+				
08200	Orconectes sp	+				
13521	Stenonema femoratum	+				
21200	Calopteryx sp	+				
50301	Chimarra aterrima	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52315	Diplectrona modesta	+				
52430	Ceratopsyche morosa group	+				
52530	Hydropsyche depravata group	+				
68025	Ectopria sp	+				
68075	Psephenus herricki	+				
83040	Dicrotendipes neomodestus	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				

No. Quantitative Taxa:	0	Total Taxa:	17
No. Qualitative Taxa:	17	ICI:	G
Number of Organisms:	0	Qual EPT:	7



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM20**      Collection Date: 08/29/2012   River Code: 11-067   River: Trib to LMR at RM 7.75   RM: 1.20

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
05900	Lirceus sp	+				
06904	Synurella dentata	+				
07701	Cambaridae	+				
21200	Calopteryx sp	+				
50301	Chimarra aterrima	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
53501	Hydroptilidae	+				
57400	Neophylax sp	+				
68025	Ectopria sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
77750	Hayesomyia senata or Thienemannimyia norena	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
85001	Tanytarsini	+				
85500	Paratanytarsus sp	+				

No. Quantitative Taxa: 0      Total Taxa: 18  
 No. Qualitative Taxa: 18      ICI:  
 Number of Organisms: 0      Qual EPT: 5

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM19**      Collection Date: 08/29/2012   River Code: 11-068   River: Trib (RM2.7) to Trib to LMR   RM:      0.50

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
04664	Helobdella stagnalis	+				
05900	Lirceus sp	+				
06700	Crangonyx sp	+				
77750	Hayesomyia senata or Thienemannimyia norena	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84470	Polypedilum (P.) illinoense	+				

No. Quantitative Taxa:	0	Total Taxa:	8
No. Qualitative Taxa:	8	ICI:	
Number of Organisms:	0	Qual EPT:	0

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM44**      Collection Date: 09/16/2012   River Code: 11-069   River: Trib to Polk Run at RM 1.79   RM: 0.40

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
04935	Erpobdella punctata punctata	+				
05900	Lirceus sp	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	+				
22001	Coenagrionidae	+				
22300	Argia sp	+				
50301	Chimarra aterrima	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68075	Psephenus herricki	+				
74100	Simulium sp	+				
77130	Ablabesmyia rhamphe group	+				
84210	Paratendipes albimanus or P. duplicatus	+				
85625	Rheotanytarsus sp	+				

No. Quantitative Taxa:	0	Total Taxa:	18
No. Qualitative Taxa:	18	ICI:	G
Number of Organisms:	0	Qual EPT:	7

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM41**      Collection Date: 09/06/2012   River Code: 11-069   River: Trib to Polk Run at RM 1.79   RM: 2.60

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
05900	Lirceus sp	+				
06201	Hyalella azteca	+				
06700	Crangonyx sp	+				
11120	Baetis flavistriga	+				
13521	Stenonema femoratum	+				
21200	Calopteryx sp	+				
22300	Argia sp	+				
50301	Chimarra aterrima	+				
51600	Polycentropus sp	+				
52200	Cheumatopsyche sp	+				
60900	Peltodytes sp	+				
68025	Ectopria sp	+				
68075	Psephenus herricki	+				
72700	Anopheles sp	+				
74100	Simulium sp	+				
79400	Zavrelimyia sp	+				
83840	Microtendipes pedellus group	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84315	Phaenopsectra flavipes	+				
84450	Polypedilum (Uresipedilum) flavum	+				
85625	Rheotanytarsus sp	+				

No. Quantitative Taxa:	0	Total Taxa:	22
No. Qualitative Taxa:	22	ICI:	MG
Number of Organisms:	0	Qual EPT:	5

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM43**      Collection Date: 09/24/2012   River Code: 11-070   River: Trib to Polk Run @ RM 0.70   RM: 0.80

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
22001	Coenagrionidae	+				
22300	Argia sp	+				
50301	Chimarra aterrima	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
68025	Ectopria sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
77130	Ablabesmyia rhamphe group	+				
84470	Polypedilum (P.) illinoense	+				
96120	Menetus (Micromenetus) dilatatus	+				

No. Quantitative Taxa:	0	Total Taxa:	15
No. Qualitative Taxa:	15	ICI:	MG
Number of Organisms:	0	Qual EPT:	5

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM42**      Collection Date: 07/16/2012   River Code: 11-070   River: Trib to Polk Run @ RM 0.70   RM: 1.90

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
03600	Oligochaeta	+				
11001	Baetidae	+				
11120	Baetis flavistriga	+				
52200	Cheumatopsyche sp	+				
53800	Hydroptila sp	+				
83040	Dicrotendipes neomodestus	+				
95100	Physella sp	+				

No. Quantitative Taxa:	0	Total Taxa:	7
No. Qualitative Taxa:	7	ICI:	F
Number of Organisms:	0	Qual EPT:	4

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM45**      Collection Date: 09/17/2012   River Code: 11-071   River: Trib RM1.77 to Trib to Polk   RM:      0.20

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
04935	Erpobdella punctata punctata	+				
11120	Baetis flavistriga	+				
21200	Calopteryx sp	+				
22300	Argia sp	+				
50301	Chimarra aterrima	+				
50315	Chimarra obscura	+				
51600	Polycentropus sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68025	Ectopria sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
71900	Tipula sp	+				
77750	Hayesomyia senata or Thienemannimyia norena	+				
81650	Parametriocnemus sp	+				
85625	Rheotanytarsus sp	+				
98001	Sphaeriidae	+				

No. Quantitative Taxa:	0	Total Taxa:	18
No. Qualitative Taxa:	18	ICI:	G
Number of Organisms:	0	Qual EPT:	6

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM63**      Collection Date: 08/31/2012   River Code: 11-073   River: Trib to NBr Sycamore Cr   RM: 0.60

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
00401	Spongillidae	+				
01801	Turbellaria	+				
03600	Oligochaeta	+				
22001	Coenagrionidae	+				
28705	Pachydiplax longipennis	+				
52200	Cheumatopsyche sp	+				
68025	Ectopria sp	+				
69400	Stenelmis sp	+				
77800	Helopelopia sp	+				
82710	Chironomus (C.) sp	+				
83051	Dicrotendipes simpsoni	+				
83300	Glyptotendipes (G.) sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84888	Xenochironomus xenolabis	+				
85625	Rheotanytarsus sp	+				
85821	Tanytarsus glabrescens group sp 7	+				
87501	Empididae	+				
95900	Gyraulus sp	+				

No. Quantitative Taxa:	0	Total Taxa:	19
No. Qualitative Taxa:	19	ICI:	P
Number of Organisms:	0	Qual EPT:	1



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM64**      Collection Date: 09/24/2012   River Code: 11-074   River: Trib to NBr Scyamore Cr @   RM:      1.40

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
70501	Tipulidae	+				
83040	Dicrotendipes neomodestus	+				
96120	Menetus (Micromenetus) dilatatus	+				

No. Quantitative Taxa:	0	Total Taxa:	5
No. Qualitative Taxa:	5	ICI:	
Number of Organisms:	0	Qual EPT:	0

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM80**      Collection Date: 09/09/2012   River Code: 11-075   River: Trib to Duck Creek @ RM   RM:      0.20

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
00401	Spongillidae	+				
03600	Oligochaeta	+				
04901	Erpobdellidae	+				
28800	Pantala sp	+				
77500	Conchapelopia sp	+				
80415	Cricotopus (C.) absurdus	+				
82730	Chironomus (C.) decorus group	+				
83003	Dicrotendipes fumidus	+				
84470	Polypedilum (P.) illinoense	+				
95100	Physella sp	+				

No. Quantitative Taxa: 0      Total Taxa: 10  
 No. Qualitative Taxa: 10      ICI: VP  
 Number of Organisms: 0      Qual EPT: 0

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM89**      Collection Date: 09/23/2012   River Code: 11-076   River: Little Duck Creek      RM: 1.40

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
04664	Helobdella stagnalis	+				
05800	Caecidotea sp	+				
06700	Crangonyx sp	+				
13521	Stenonema femoratum	+				
50315	Chimarra obscura	+				
68075	Psephenus herricki	+				
77120	Ablabesmyia mallochi	+				
79400	Zavrelimyia sp	+				
83040	Dicrotendipes neomodestus	+				
84210	Paratendipes albimanus or P. duplicatus	+				
85800	Tanytarsus sp	+				
85821	Tanytarsus glabrescens group sp 7	+				

No. Quantitative Taxa: 0      Total Taxa: 14

No. Qualitative Taxa: 14      ICI: P

Number of Organisms: 0      Qual EPT: 2

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM90**      Collection Date: 07/24/2012   River Code: 11-076   River: Little Duck Creek      RM: 2.30

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05900	Lirceus sp	+				
13521	Stenonema femoratum	+				
50301	Chimarra aterrima	+				
51600	Polycentropus sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68025	Ectopria sp	+				
68075	Psephenus herricki	+				
71900	Tipula sp	+				
72700	Anopheles sp	+				
81650	Parametricnemus sp	+				
84450	Polypedilum (Uresipedilum) flavum	+				

No. Quantitative Taxa: 0      Total Taxa: 14  
 No. Qualitative Taxa: 14      ICI: MG  
 Number of Organisms: 0      Qual EPT: 5

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM87**      Collection Date: 07/18/2012   River Code: 11-076   River: Little Duck Creek      RM: 2.60

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
05900	Lirceus sp	+				
06700	Crangonyx sp	+				
11120	Baetis flavistriga	+				
13521	Stenonema femoratum	+				
50301	Chimarra aterrima	+				
51600	Polycentropus sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68025	Ectopria sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
74100	Simulium sp	+				
77750	Hayesomyia senata or Thienemannimyia norena	+				
81650	Parametriocnemus sp	+				
83840	Microtendipes pedellus group	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84470	Polypedilum (P.) illinoense	+				
85625	Rheotanytarsus sp	+				

No. Quantitative Taxa:	0	Total Taxa:	20
No. Qualitative Taxa:	20	ICI:	G
Number of Organisms:	0	Qual EPT:	6

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM86**      Collection Date: 07/18/2012   River Code: 11-076   River: Little Duck Creek      RM: 2.70

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
05900	Lirceus sp	+				
06700	Crangonyx sp	+				
11120	Baetis flavistriga	+				
11130	Baetis intercalaris	+				
13521	Stenonema femoratum	+				
21200	Calopteryx sp	+				
50301	Chimarra aterrima	+				
51600	Polycentropus sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68025	Ectopria sp	+				
68075	Psephenus herricki	+				
72700	Anopheles sp	+				
77500	Conchapelopia sp	+				
83040	Dicrotendipes neomodestus	+				
83840	Microtendipes pedellus group	+				
85625	Rheotanytarsus sp	+				

No. Quantitative Taxa:	0	Total Taxa:	19
No. Qualitative Taxa:	19	ICI:	G
Number of Organisms:	0	Qual EPT:	7

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM82**      Collection Date: 08/28/2012   River Code: 11-077   River: Trib to Little Duck Cr. @ RM   RM:      0.10

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
05900	Lirceus sp	+				
06700	Crangonyx sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
94400	Fossaria sp	+				

No. Quantitative Taxa:	0	Total Taxa:	5
No. Qualitative Taxa:	5	ICI:	
Number of Organisms:	0	Qual EPT:	0

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM93**      Collection Date: 07/31/2012 River Code: 11-078 River: Trib to McCullough Run @ RM: 1.40

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
05800	Caecidotea sp	+				
06810	Gammarus fasciatus	+				
11120	Baetis flavistriga	+				
13521	Stenonema femoratum	+				
21200	Calopteryx sp	+				
22001	Coenagrionidae	+				
51600	Polycentropus sp	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
77120	Ablabesmyia mallochi	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84315	Phaenopsectra flavipes	+				
84450	Polypedilum (Uresipedilum) flavum	+				
84540	Polypedilum (Tripodura) scalaenum group	+				

No. Quantitative Taxa:	0	Total Taxa:	17
No. Qualitative Taxa:	17	ICI:	MG
Number of Organisms:	0	Qual EPT:	5



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM101**      Collection Date: 07/25/2012   River Code: 11-079   River: Trib to Clough Creek at   RM: 1.05

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
05900	Lirceus sp	+				
06700	Crangonyx sp	+				
11120	Baetis flavistriga	+				
50315	Chimarra obscura	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	+				
74100	Simulium sp	+				
78599	Pentaneura sp	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84470	Polypedilum (P.) illinoense	+				

No. Quantitative Taxa: 0      Total Taxa: 13

No. Qualitative Taxa: 13      ICI: F

Number of Organisms: 0      Qual EPT: 4

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM102**      Collection Date: 07/30/2012   River Code: 11-080   River: Trib RM0.66 to Trib Clough   RM:      0.20

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
03600	Oligochaeta	+				
06700	Crangonyx sp	+				
21604	Archilestes grandis	+				
52200	Cheumatopsyche sp	+				
52530	Hydropsyche depravata group	+				
72700	Anopheles sp	+				
77750	Hayesomyia senata or Thienemannimyia norena	+				
78350	Meropelopia sp	+				
79400	Zavrelimyia sp	+				
82710	Chironomus (C.) sp	+				
84470	Polypedilum (P.) illinoense	+				
95100	Physella sp	+				

No. Quantitative Taxa:	0	Total Taxa:	13
No. Qualitative Taxa:	13	ICI:	P
Number of Organisms:	0	Qual EPT:	2

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM100**      Collection Date: 07/25/2012      River Code: 11-081      River: Trib RM0.95 to Trib to      RM:      0.10

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
50101	Philopotamidae	+				
52200	Cheumatopsyche sp	+				
74501	Ceratopogonidae	+				
93200	Hydrobiidae	+				

No. Quantitative Taxa:	0	Total Taxa:	5
No. Qualitative Taxa:	5	ICI:	P
Number of Organisms:	0	Qual EPT:	2

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM62**      Collection Date: 07/16/2012   River Code: 11-084   River: Trib to NBr. Sycamore Cr @   RM:      1.65

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+				
04935	Erpobdella punctata punctata	+				
08200	Orconectes sp	+				
52200	Cheumatopsyche sp	+				
81650	Parametriocnemus sp	+				
83040	Dicrotendipes neomodestus	+				
84210	Paratendipes albimanus or P. duplicatus	+				
84450	Polypedilum (Uresipedilum) flavum	+				
85001	Tanytarsini	+				

No. Quantitative Taxa:	0	Total Taxa:	9
No. Qualitative Taxa:	9	ICI:	
Number of Organisms:	0	Qual EPT:	1

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM36</b>		Collection Date: 08/18/2012		River Code: 11-100		River: East Fork Little Miami River		RM: 0.70	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	15 +	78655	Procladius (Holotanypus) sp		+			
03040	Fredericella sp	+	78750	Rheopelopia paramaculipennis		31			
03360	Plumatella sp	1	80310	Cardiocladius obscurus		+			
03600	Oligochaeta	+	80430	Cricotopus (C.) tremulus group		28			
11020	Acerpenna pygmaea	28	82121	Thienemanniella lobapodema		6			
11119	Plauditus dubius or P. virilis	+	82130	Thienemanniella similis		114 +			
11130	Baetis intercalaris	162 +	82820	Cryptochironomus sp		+			
13000	Leucrocota sp	5 +	83050	Dicrotendipes lucifer		55			
13100	Nixe sp	+	84000	Parachironomus sp		14			
13510	Maccaffertium exiguum	39 +	84450	Polypedilum (Uresipedilum) flavum		290 +			
13521	Stenonema femoratum	21	84520	Polypedilum (Tripodura) halterale group		14			
13550	Maccaffertium mexicanum integrum	9	84700	Stenochironomus sp		111			
13561	Maccaffertium pulchellum	36 +	84960	Pseudochironomus sp		14			
13570	Maccaffertium terminatum	3 +	85615	Rheotanytarsus pellucidus		28 +			
16700	Tricorythodes sp	91 +	85625	Rheotanytarsus sp		249 +			
22001	Coenagrionidae	+	85821	Tanytarsus glabrescens group sp 7		69			
22300	Argia sp	3 +	93900	Elimia sp		6 +			
24107	Nasiaeschna pentacantha	+	97601	Corbicula fluminea		+			
34700	Agnetina capitata complex	+	98001	Sphaeriidae		+			
50315	Chimarra obscura	2 +							
51206	Cynellus fraternus	95 +	No. Quantitative Taxa:		43	Total Taxa:		61	
51300	Neureclipsis sp	19 +	No. Qualitative Taxa:		40	ICI:		50	
52200	Cheumatopsyche sp	1057 +	Number of Organisms:		2982	Qual EPT:		17	
52430	Ceratopsyche morosa group	188 +							
52510	Hydropsyche aerata	3							
52530	Hydropsyche depravata group	5							
52540	Hydropsyche dicantha	3							
52570	Hydropsyche simulans	8							
53800	Hydroptila sp	4 +							
57400	Neophylax sp	+							
59160	Ceraclea spongillovorax	1							
59407	Nectopsyche candida	+							
59970	Petrophila sp	+							
60900	Peltodytes sp	+							
68075	Psephenus herricki	+							
68601	Ancyronyx variegata	+							
68901	Macronychus glabratus	5 +							
69400	Stenelmis sp	1 +							
74100	Simulium sp	6 +							
77750	Hayesomyia senata or Thienemannimyia norena	135							
78140	Labrundinia pilosella	4							
78450	Nilotanypus fimbriatus	4							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM35</b>			Collection Date: 08/16/2012 River Code: 11-100 River: East Fork Little Miami River RM: 1.00		
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol. Qt./Ql.
01801	Turbellaria	27 +	77130	Ablabesmyia rhamphe group	9 +
03000	Extroprocta	+	77355	Clinotanypus pinguis	+
05900	Lirceus sp	+	77750	Hayesomyia senata or Thienemannimyia norena	53
11020	Acerpenna pygmaea	13	78750	Rheopelopia paramaculipennis	26
11119	Plauditus dubius or P. virilis	+	80420	Cricotopus (C.) bicinctus	9
11130	Baetis intercalaris	87 +	82101	Thienemanniella taurocapita	9
13400	Stenacron sp	3	82121	Thienemanniella lobapodema	+
13510	Maccaffertium exiguum	6 +	82130	Thienemanniella similis	68 +
13521	Stenonema femoratum	26 +	83002	Dicrotendipes modestus	9
13561	Maccaffertium pulchellum	64 +	83040	Dicrotendipes neomodestus	+
13570	Maccaffertium terminatum	35 +	83300	Glyptotendipes (G.) sp	9
16700	Tricorythodes sp	140 +	83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)	+
17200	Caenis sp	+	84450	Polypedilum (Uresipedilum) flavum	316 +
21300	Hetaerina sp	2 +	84470	Polypedilum (P.) illinoense	+
22001	Coenagrionidae	+	84700	Stenochironomus sp	97
22300	Argia sp	+	84960	Pseudochironomus sp	9
23804	Basiaeschna janata	+	85265	Cladotanytarsus vanderwulpi group Type 5	+
28500	Libellula sp	+	85615	Rheotanytarsus pellucidus	18
34700	Agnetina capitata complex	+	85625	Rheotanytarsus sp	169 +
50301	Chimarra aterrima	38	85821	Tanytarsus glabrescens group sp 7	26 +
50315	Chimarra obscura	+	93900	Elimia sp	+
51206	Cynellus fraternus	1	95100	Physella sp	+
51300	Neureclipsis sp	24 +	97601	Corbicula fluminea	+
51600	Polycentropus sp	+			
52200	Cheumatopsyche sp	1650 +			
52430	Ceratopsyche morosa group	456 +			
52530	Hydropsyche depravata group	20	No. Quantitative Taxa:	36	Total Taxa: 66
52540	Hydropsyche dicantha	+	No. Qualitative Taxa:	49	ICI: 50
52570	Hydropsyche simulans	2	Number of Organisms:	3435	Qual EPT: 17
53800	Hydroptila sp	+			
59140	Ceraclea maculata	1			
59407	Nectopsyche candida	+			
59580	Oecetis persimilis	1			
59970	Petrophila sp	+			
60900	Peltodytes sp	+			
65800	Berosus sp	+			
67800	Tropisternus sp	+			
68075	Psephenus herricki	+			
68601	Ancyronyx variegata	+			
68901	Macronychus glabratus	5 +			
69400	Stenelmis sp	4 +			
74100	Simulium sp	3 +			
77120	Ablabesmyia mallochii	+			

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM34</b>		Collection Date: 08/18/2012		River Code: 11-100		River: East Fork Little Miami River		RM: 2.00	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
01801	Turbellaria	95 +	78750	Rheopelopia paramaculipennis		+			
03040	Fredericella sp	+	80350	Corynoneura sp		4 +			
03360	Plumatella sp	1	80420	Cricotopus (C.) bicinctus		+			
03600	Oligochaeta	24 +	80430	Cricotopus (C.) tremulus group		4			
04666	Helobdella papillata	+	81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"		4 +			
05900	Lirceus sp	+	82101	Thienemanniella taurocapita		4			
06700	Crangonyx sp	+	82121	Thienemanniella lobapodema		8			
11001	Baetidae	2	82130	Thienemanniella similis		12 +			
11020	Acerpenna pygmaea	+	82820	Cryptochironomus sp		4 +			
11130	Baetis intercalaris	+	83002	Dicrotendipes modestus		4			
11670	Procloeon viridoculare	+	83040	Dicrotendipes neomodestus		4			
13000	Leucrocota sp	1	83820	Microtendipes "caelum" (sensu Simpson & Bode, 1980)		+			
13400	Stenacron sp	13 +	84450	Polypedilum (Uresipedilum) flavum		71			
13510	Maccaffertium exiguum	4	84470	Polypedilum (P.) illinoense		4			
13521	Stenonema femoratum	65 +	84540	Polypedilum (Tripodura) scalaenum group		27 +			
13561	Maccaffertium pulchellum	3	84651	Stelechomyia perpulchra		4			
13570	Maccaffertium terminatum	7 +	84700	Stenochironomus sp		67 +			
16700	Tricorythodes sp	17 +	84960	Pseudochironomus sp		8			
17200	Caenis sp	+	85615	Rheotanytarsus pellucidus		+			
18100	Anthopotamus sp	+	85625	Rheotanytarsus sp		67 +			
22001	Coenagrionidae	+	85800	Tanytarsus sp		4			
22300	Argia sp	7 +	85821	Tanytarsus glabrescens group sp 7		39 +			
50315	Chimarra obscura	5 +	85840	Tanytarsus sepp		4			
51206	Cynellus fraternus	42	93200	Hydrobiidae		+			
51300	Neureclipsis sp	14 +	93900	Elimia sp		12 +			
51600	Polycentropus sp	1 +	95100	Physella sp		4 +			
52200	Cheumatopsyche sp	353 +	95501	Planorbidae		+			
52430	Ceratopsyche morosa group	+	96900	Ferrissia sp		36 +			
53400	Protophila sp	+	97601	Corbicula fluminea		+			
53800	Hydroptila sp	4 +							
57400	Neophylax sp	+							
59580	Oecetis persimilis	1 +							
59970	Petrophila sp	+							
68075	Psephenus herricki	+							
68601	Ancyronyx variegata	7 +							
68901	Macronychus glabratus	4 +							
69400	Stenelmis sp	+							
77120	Ablabesmyia mallochi	8							
77130	Ablabesmyia rhamphe group	12 +							
77750	Hayesomyia senata or Thienemannimyia norena	59 +							
77800	Helopelopia sp	4							
78140	Labrundinia pilosella	4							
			No. Quantitative Taxa:		48	Total Taxa:		71	
			No. Qualitative Taxa:		51	ICI:		42	
			Number of Organisms:		1152	Qual EPT:		18	

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM32** Collection Date: 08/19/2012 River Code: 11-100 River: East Fork Little Miami River RM: 4.30

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	45	80360	Corynoneura "celeripes" (sensu Simpson & Bode, 1980)		+
03040	Fredericella sp	+	80420	Cricotopus (C.) bicinctus		+
03600	Oligochaeta	8 +	81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"		6
04666	Helobdella papillata	+	81650	Parametriocnemus sp		+
08250	Orconectes (Procericambarus) rusticus	+	82121	Thienemanniella lobapodema		6
08601	Hydrachnidia	+	82130	Thienemanniella similis		18
11020	Acerpenna pygmaea	26	82220	Tvetenia discoloripes group		6
11130	Baetis intercalaris	220 +	83002	Dicrotendipes modestus		6
13000	Leucrocuta sp	5	83040	Dicrotendipes neomodestus		6
13400	Stenacron sp	+	84450	Polypedilum (Uresipedilum) flavum		203 +
13521	Stenonema femoratum	87 +	84700	Stenochironomus sp		18
13561	Maccaffertium pulchellum	101 +	84960	Pseudochironomus sp		6
13570	Maccaffertium terminatum	24 +	85265	Cladotanytarsus vanderwulpi group Type 5		+
16700	Tricorythodes sp	74 +	85615	Rheotanytarsus pellucidus		31
21300	Hetaerina sp	4 +	85625	Rheotanytarsus sp		191 +
22001	Coenagrionidae	+	85821	Tanytarsus glabrescens group sp 7		18
22300	Argia sp	1 +	93900	Elimia sp		1 +
27400	Neurocordulia sp	+	95100	Physella sp		+
34700	Agnatina capitata complex	1	96900	Ferrissia sp		+
50315	Chimarra obscura	9 +	97601	Corbicula fluminea		+
51206	Cynellus fraternus	24 +				
51300	Neureclipsis sp	41 +				
51600	Polycentropus sp	1 +				
52200	Cheumatopsyche sp	687 +	No. Quantitative Taxa:	39	Total Taxa:	62
52430	Ceratopsyche morosa group	347 +	No. Qualitative Taxa:	43	ICI:	50
52570	Hydropsyche simulans	2	Number of Organisms:	2376	Qual EPT:	16
53400	Protophila sp	+				
53800	Hydroptila sp	+				
59400	Nectopsyche sp	1				
59407	Nectopsyche candida	+				
59580	Oecetis persimilis	1 +				
59970	Petrophila sp	+				
68075	Psephenus herricki	1 +				
68201	Scirtidae	+				
68601	Ancyronyx variegata	+				
68901	Macronychus glabratus	51 +				
69400	Stenelmis sp	+				
74100	Simulium sp	+				
77130	Ablabesmyia rhamphe group	6				
77750	Hayesomyia senata or Thienemannimyia norena	68				
78450	Nilotanypus fimbriatus	25				
79100	Thienemannimyia group	+				



**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM31**      Collection Date: 08/18/2012 River Code: 11-100 River: East Fork Little Miami River RM: 5.60

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
00401	Spongillidae	+		Thienemannimyia norena		
01801	Turbellaria	3 +	78655	Procladius (Holotanypus) sp		+
03000	Extroprocta	+	78750	Rheopelopia paramaculipennis	42	+
03600	Oligochaeta	5 +	80310	Cardiocladius obscurus		+
04666	Helobdella papillata	+	80360	Corynoneura "celeripes" (sensu Simpson & Bode, 1980)	16	
08601	Hydrachnidia	+	80420	Cricotopus (C.) bicinctus		21
11020	Acerpenna pygmaea	26 +	80430	Cricotopus (C.) tremulus group		11
11119	Plauditus dubius or P. virilis	4 +	81231	Nanocladius (N.) crassicornus or N. (N.) "rectinervis"		11
11130	Baetis intercalaris	55 +	82101	Thienemanniella taurocapita		40
11200	Callibaetis sp	+	82121	Thienemanniella lobapodema		11
11670	Procloeon viridoculare	+	82130	Thienemanniella similis		44
13400	Stenacron sp	8 +	82141	Thienemanniella xena		8
13510	Maccaffertium exiguum	1 +	82220	Tvetenia discoloripes group		11
13521	Stenonema femoratum	32	82730	Chironomus (C.) decorus group		+
13570	Maccaffertium terminatum	7 +	83002	Dicrotendipes modestus		42
16700	Tricorythodes sp	57 +	83040	Dicrotendipes neomodestus		158
17200	Caenis sp	1 +	84210	Paratendipes albimanus or P. duplicatus		+
21200	Calopteryx sp	+	84450	Polypedilum (Uresipedilum) flavum		107 +
22001	Coenagrionidae	+	84470	Polypedilum (P.) illinoense		42 +
22300	Argia sp	5 +	84520	Polypedilum (Tripodura) halterale group		53
27400	Neurocordulia sp	1 +	84540	Polypedilum (Tripodura) scalaenum group		+
34700	Agnetina capitata complex	+	84700	Stenochironomus sp		53
50315	Chimarra obscura	13 +	84790	Tribelos fuscicorne		21
51206	Cynellus fraternus	95	84800	Tribelos jucundum		+
51300	Neureclipsis sp	51 +	85230	Cladotanytarsus mancus group		+
51600	Polycentropus sp	3 +	85625	Rheotanytarsus sp		53 +
52200	Cheumatopsyche sp	491 +	85821	Tanytarsus glabrescens group sp 7		63
52430	Ceratopsyche morosa group	51 +	93900	Elimia sp		22 +
53400	Protophila sp	+	96900	Ferrissia sp		8 +
53800	Hydroptila sp	30 +	97601	Corbicula fluminea		2 +
59500	Oecetis sp	+				
59580	Oecetis persimilis	23				
59740	Trienodes perna	+				
59970	Petrophila sp	+				
65800	Berosus sp	+				
67000	Helophorus sp	+				
67800	Tropisternus sp	+				
68075	Psephenus herricki	+				
68601	Ancyronyx variegata	2 +				
68901	Macronychus glabratus	4 +				
69400	Stenelmis sp	2 +				
77130	Ablabesmyia rhamphe group	+				
77750	Hayesomyia senata or	127				
			No. Quantitative Taxa: 47		Total Taxa: 72	
			No. Qualitative Taxa: 53		ICI: 46	
			Number of Organisms: 1936		Qual EPT: 20	

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: <b>LM30</b>		Collection Date: 08/18/2012		River Code: 11-100		River: East Fork Little Miami River		RM: 9.10	
Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.			
00401	Spongillidae	+	84300	Phaenopsectra obediens group		+			
01320	Hydra sp	8	84450	Polypedilum (Uresipedilum) flavum		403	+		
01801	Turbellaria	91	84470	Polypedilum (P.) illinoense		7	+		
03000	Extroprocta	+	84540	Polypedilum (Tripodura) scalaenum group		21			
03600	Oligochaeta	+	85615	Rheotanytarsus pellucidus		7	+		
08601	Hydrachnidia	8	85625	Rheotanytarsus sp		153	+		
11130	Baetis intercalaris	48	85840	Tanytarsus sepp		7			
11503	Heterocloeon (H.) sp	+	93900	Elimia sp		295	+		
13400	Stenacron sp	9	96900	Ferrissia sp			+		
13510	Maccaffertium exiguum	6	97601	Corbicula fluminea		20	+		
13561	Maccaffertium pulchellum	29	98001	Sphaeriidae		16			
13570	Maccaffertium terminatum	23							
16700	Tricorythodes sp	63							
17200	Caenis sp	+	No. Quantitative Taxa:		37	Total Taxa:		53	
21200	Calopteryx sp	+	No. Qualitative Taxa:		42	ICI:		46	
22300	Argia sp	18	Number of Organisms:		2832	Qual EPT:		17	
27400	Neurocordulia sp	+							
34700	Agnetina capitata complex	38							
48410	Corydalus cornutus	1							
50315	Chimarra obscura	193							
51206	Cynellus fraternus	2							
51300	Neureclipsis sp	4							
52200	Cheumatopsyche sp	496							
52430	Ceratopsyche morosa group	441							
52540	Hydropsyche dicantha	22							
53400	Protoptila sp	65							
53800	Hydroptila sp	10							
59400	Nectopsyche sp	+							
59580	Oecetis persimilis	+							
59970	Petrophila sp	+							
68075	Psephenus herricki	+							
68901	Macronychus glabratus	9							
69400	Stenelmis sp	198							
74100	Simulium sp	9							
77750	Hayesomyia senata or Thienemannimyia norena	76							
77800	Helopelopia sp	14							
78450	Nilotanypus fimbriatus	14							
78750	Rheopelopia paramaculipennis	7							
80310	Cardiocladius obscurus	+							
80420	Cricotopus (C.) bicinctus	+							
82130	Thienemanniella similis	+							
82220	Tvetenia discoloripes group	1							

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM29**      Collection Date: 08/18/2012   River Code: 11-100   River: East Fork Little Miami River   RM: 11.00

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	204	85615	Rheotanytarsus pellucidus		93
03040	Fredericella sp	+	93900	Elimia sp		36 +
03600	Oligochaeta	+	96900	Ferrissia sp		16
04663	Helobdella papillata	+	97601	Corbicula fluminea		+
11119	Plauditus dubius or P. virilis	11 +				
11130	Baetis intercalaris	443 +	No. Quantitative Taxa: 28		Total Taxa: 46	
11670	Procloeon viridoculare	+	No. Qualitative Taxa: 34		ICI: 44	
13400	Stenacron sp	+	Number of Organisms: 3368		Qual EPT: 16	
13521	Stenonema femoratum	5 +				
13561	Maccaffertium pulchellum	43 +				
13570	Maccaffertium terminatum	11 +				
16700	Tricorythodes sp	2 +				
22001	Coenagrionidae	+				
22300	Argia sp	1 +				
27400	Neurocordulia sp	+				
34700	Agnetina capitata complex	2 +				
48001	Corydalidae	1				
50315	Chimarra obscura	275 +				
51300	Neureclipsis sp	3 +				
52200	Cheumatopsyche sp	234 +				
52430	Ceratopsyche morosa group	1158 +				
52540	Hydropsyche dicantha	10 +				
53400	Protoptila sp	+				
53800	Hydroptila sp	+				
59160	Ceraclea spongillovorax	1				
59500	Oecetis sp	16				
59970	Petrophila sp	+				
68075	Psephenus herricki	+				
68901	Macronychus glabratus	+				
69400	Stenelmis sp	+				
74100	Simulium sp	5				
77120	Ablabesmyia mallochi	+				
77750	Hayesomyia senata or Thienemannimyia norena	21				
80310	Cardiocladius obscurus	+				
82101	Thienemanniella taurocapita	24				
82220	Tvetenia discoloripes group	10				
82820	Cryptochironomus sp	+				
83040	Dicrotendipes neomodestus	10 +				
84450	Polypedilum (Uresipedilum) flavum	196 +				
84470	Polypedilum (P.) illinoense	+				
84700	Stenochironomus sp	217				
85500	Paratanytarsus sp	320				

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM28**      Collection Date: 08/16/2012   River Code: 11-100   River: East Fork Little Miami River   RM: 13.20

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01320	Hydra sp	1	77750	Hayesomyia senata or Thienemannimyia norena		10 +
01801	Turbellaria	1 +	78450	Nilotanypus fimbriatus		10
03600	Oligochaeta	8	78750	Rheopelopia paramaculipennis		5 +
08601	Hydrachnidia	+	80310	Cardiocladius obscurus		10 +
11020	Acerpenna pygmaea	2	80370	Corynoneura lobata		5
11119	Plauditus dubius or P. virilis	2 +	80410	Cricotopus (C.) sp		5
11130	Baetis intercalaris	470 +	80420	Cricotopus (C.) bicinctus		15
11150	Pseudocloeon propinquum	+	82101	Thienemanniella taurocapita		5 +
13400	Stenacron sp	+	82130	Thienemanniella similis		10 +
13521	Stenonema femoratum	+	82220	Tvetenia discoloripes group		45 +
13561	Maccaffertium pulchellum	23 +	83040	Dicrotendipes neomodestus		5
13570	Maccaffertium terminatum	158 +	84450	Polypedilum (Uresipedilum) flavum		186 +
16700	Tricorythodes sp	8 +	84470	Polypedilum (P.) illinoense		+
21300	Hetaerina sp	1 +	84700	Stenochironomus sp		5
22001	Coenagrionidae	+	85615	Rheotanytarsus pellucidus		5
22300	Argia sp	1 +	85625	Rheotanytarsus sp		146 +
28500	Libellula sp	+	93900	Elimia sp		124 +
34300	Neoperla clymene complex	2 +	96900	Ferrissia sp		24 +
34700	Agnatina capitata complex	2 +	97601	Corbicula fluminea		+
43300	Ranatra sp	+				
48410	Corydalus cornutus	6 +				
50315	Chimarra obscura	38 +	No. Quantitative Taxa:	42	Total Taxa:	62
50906	Psychomyia flavida	+	No. Qualitative Taxa:	51	ICI:	52
51206	Cymellus fraternus	+	Number of Organisms:	2043	Qual EPT:	24
51300	Neureclipsis sp	4 +				
52200	Cheumatopsyche sp	217 +				
52430	Ceratopsyche morosa group	362 +				
52540	Hydropsyche dicantha	27 +				
53400	Protoptila sp	+				
53800	Hydroptila sp	60 +				
57400	Neophylax sp	+				
57900	Pycnopsyche sp	+				
58505	Helicopsyche borealis	+				
59100	Ceraclea sp	+				
59580	Oecetis persimilis	11 +				
59970	Petrophila sp	1 +				
65800	Berosus sp	+				
68075	Psephenus herricki	+				
68601	Ancyronyx variegata	3				
68901	Macronychus glabratus	11 +				
69400	Stenelmis sp	+				
74100	Simulium sp	9 +				
77500	Conchapelopia sp	+				

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM27**      Collection Date: 08/16/2012   River Code: 11-100   River: East Fork Little Miami River   RM: 13.90

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	3 +	84450	Polypedilum (Uresipedilum) flavum		53 +
04660	Helobdella sp	+	84460	Polypedilum (P.) fallax group		1
05900	Lirceus sp	+	84470	Polypedilum (P.) illinoense		2
08601	Hydrachnidia	1 +	84540	Polypedilum (Tripodura) scalaenum group		+
11119	Plauditus dubius or P. virilis	30				
11130	Baetis intercalaris	279 +	84700	Stenochironomus sp		5 +
11150	Pseudocloeon propinquum	+	85615	Rheotanytarsus pellucidus		+
11650	Proclaeon sp (w/ hindwing pads)	+	85625	Rheotanytarsus sp		91 +
13400	Stenacron sp	+	93900	Elimia sp		7 +
13510	Maccaffertium exiguum	20 +	96900	Ferrissia sp		+
13521	Stenonema femoratum	+	97601	Corbicula fluminea		1 +
13561	Maccaffertium pulchellum	57 +				
13570	Maccaffertium terminatum	12 +	No. Quantitative Taxa: 32		Total Taxa: 53	
16700	Tricorythodes sp	1 +	No. Qualitative Taxa: 47		ICI: 48	
17200	Caenis sp	+	Number of Organisms: 1163		Qual EPT: 22	
21300	Hetaerina sp	+				
22001	Coenagrionidae	+				
22300	Argia sp	+				
34300	Neoperla clymene complex	+				
34700	Agnetina capitata complex	12 +				
48410	Corydalus cornutus	2 +				
50315	Chimarra obscura	3 +				
50906	Psychomyia flavida	2				
52200	Cheumatopsyche sp	81 +				
52430	Ceratopsyche morosa group	327 +				
52530	Hydropsyche depravata group	21				
52540	Hydropsyche dicantha	105 +				
53400	Protoptila sp	+				
53800	Hydroptila sp	3 +				
57400	Neophylax sp	+				
58505	Helicopsyche borealis	1 +				
59300	Mystacides sp	+				
59580	Oecetis persimilis	+				
59970	Petrophila sp	+				
68075	Psephenus herricki	1 +				
68901	Macronychus glabratus	1 +				
69400	Stenelmis sp	1 +				
74100	Simulium sp	4 +				
77130	Ablabesmyia rhamphe group	+				
80001	Orthoclaadiinae	+				
80310	Cardiocladius obscurus	11 +				
82101	Thienemanniella taurocapita	17				
82220	Tvetenia discoloripes group	8 +				

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM26**      Collection Date: 08/16/2012   River Code: 11-100   River: East Fork Little Miami River   RM: 14.90

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01320	Hydra sp	20	77120	Ablabesmyia mallochi		25 +
01801	Turbellaria	2 +	77750	Hayesomyia senata or Thienemannimyia norena		49
05900	Lirceus sp	+	77800	Helopelopia sp		12
06201	Hyaella azteca	+	78140	Labrundinia pilosella		10
08250	Orconectes (Procericambarus) rusticus	+	78655	Procladius (Holotanypus) sp		+
08601	Hydrachnidia	8 +	78750	Rheopelopia paramaculipennis		6 +
11119	Plauditus dubius or P. virilis	119 +	80001	Orthocladiinae		+
11130	Baetis intercalaris	266 +	80310	Cardiocladius obscurus		6 +
11245	Centroptilum sp	+	80430	Cricotopus (C.) tremulus group		31
11645	Proclaeon sp	+	82101	Thienemanniella taurocapita		118
11670	Proclaeon viridoculare	+	82121	Thienemanniella lobapodema		58
13400	Stenacron sp	34 +	82141	Thienemanniella xena		62
13510	Maccaffertium exiguum	18 +	82220	Tvetenia discoloripes group		+
13521	Stenonema femoratum	34 +	82820	Cryptochironomus sp		+
13561	Maccaffertium pulchellum	47 +	83002	Dicrotendipes modestus		6 +
13570	Maccaffertium terminatum	6 +	83040	Dicrotendipes neomodestus		92 +
16700	Tricorythodes sp	130	83840	Microtendipes pedellus group		12
17200	Caenis sp	16 +	83900	Nilothauma sp		6
22001	Coenagrionidae	+	84280	Phaenopsectra sp or Tribelos sp		+
22300	Argia sp	20 +	84450	Polypedilum (Uresipedilum) flavum		12
27400	Neurocordulia sp	+	84460	Polypedilum (P.) fallax group		12
34300	Neoperla clymene complex	+	84470	Polypedilum (P.) illinoense		+
34700	Agnetina capitata complex	+	84540	Polypedilum (Tripodura) scalaenum group		6 +
48410	Corydalus cornutus	1 +	84700	Stenochironomus sp		68
50315	Chimarra obscura	+	84750	Stictochironomus sp		+
50906	Psychomyia flavida	20	85201	Cladotanytarsus species group A		+
51600	Polycentropus sp	5 +	85615	Rheotanytarsus pellucidus		6
52200	Cheumatopsyche sp	43 +	85625	Rheotanytarsus sp		43
52430	Ceratopsyche morosa group	26 +	85800	Tanytarsus sp		+
52540	Hydropsyche dicantha	4 +	85821	Tanytarsus glabrescens group sp 7		18
53400	Protoptila sp	+	85840	Tanytarsus sepp		6
53800	Hydroptila sp	6 +	93900	Elimia sp		17 +
58505	Helicopsyche borealis	+	95100	Physella sp		2 +
59110	Ceraclea ancylus	+	96900	Ferrissia sp		33 +
59407	Nectopsyche candida	+				
59580	Oecetis persimilis	6 +				
59724	Trienodes injustus	+				
59970	Petrophila sp	2 +	No. Quantitative Taxa:	48	Total Taxa:	77
65810	Berosus striatus	+	No. Qualitative Taxa:	58	ICI:	48
68075	Psephenus herricki	+	Number of Organisms:	1552	Qual EPT:	25
68708	Dubiraphia vittata group	+				
68901	Macronychus glabratus	3 +				
74100	Simulium sp	+				

**Appendix Table B-2. Macroinvertebrate taxa for sites in the Little Miami River study area during 2012.**

Site ID: **LM25**      Collection Date: 08/16/2012   River Code: 11-100   River: East Fork Little Miami River   RM: 19.50

Taxa Code	Taxa	Qt./Ql.	Taxa Code	Taxa	Tol.	Qt./Ql.
01801	Turbellaria	+	84450	Polypedilum (Uresipedilum) flavum		58 +
03600	Oligochaeta	8 +	84470	Polypedilum (P.) illinoense		+
06201	Hyalella azteca	+	84490	Polypedilum (Cerobregma) ontario		3
06501	Gammaridae	1	84540	Polypedilum (Tripodura) scalaenum group		+
06700	Crangonyx sp	+				
08250	Orconectes (Procericambarus) rusticus	+	85625	Rheotanytarsus sp		189 +
08601	Hydrachnidia	8 +	87501	Empididae		5
11120	Baetis flavistriga	2 +	93900	Elimia sp		4 +
11130	Baetis intercalaris	276 +	96120	Menetus (Micromenetus) dilatatus		2
13400	Stenacron sp	12 +	96900	Ferrissia sp		+
13521	Stenonema femoratum	+	97601	Corbicula fluminea		1
13561	Maccaffertium pulchellum	29 +				
13570	Maccaffertium terminatum	35 +	No. Quantitative Taxa: 31		Total Taxa: 53	
16700	Tricorythodes sp	1 +	No. Qualitative Taxa: 43		ICI: 44	
17200	Caenis sp	+	Number of Organisms: 1317		Qual EPT: 16	
22001	Coenagrionidae	+				
22300	Argia sp	+				
23804	Basiaeschna janata	+				
30000	Plecoptera	1				
48410	Corydalus cornutus	4 +				
50906	Psychomyia flavida	3 +				
52200	Cheumatopsyche sp	256 +				
52430	Ceratopsyche morosa group	200 +				
52530	Hydropsyche depravata group	+				
52540	Hydropsyche dicantha	165 +				
53800	Hydroptila sp	1 +				
57400	Neophylax sp	+				
58505	Helicopsyche borealis	+				
59580	Oecetis persimilis	1				
59970	Petrophila sp	+				
68075	Psephenus herricki	+				
69400	Stenelmis sp	4 +				
74100	Simulium sp	10 +				
77120	Ablabesmyia mallochi	3				
78655	Procladius (Holotanypus) sp	+				
78750	Rheopelopia paramaculipennis	3				
80310	Cardiocladius obscurus	19 +				
82070	Synorthocladius semivirens	+				
82101	Thienemanniella taurocapita	10 +				
82141	Thienemanniella xena	3				
82820	Cryptochironomus sp	+				
83040	Dicrotendipes neomodestus	+				
84300	Phaenopsectra obediens group	+				

## **Appendix C**

### **Little Miami River 2012 Habitat Data**



Appendix Table C-1. QHEI metric scores for stations sampled in the lower Little Miami (Cincinnati) study area during 2012.

River Mile	QHEI	QHEI Metrics:						Gradient & Score	Narrative
		Substrate	Cover	Channel	Riparian	Pool	Riffle		
<b>08-03 - (Turtle Creek)</b>									
(11021) - Turtle Creek 6.10	<b>69.00</b>	15.0	13.0	16.0	5.00	10.0	4.0	37.50 - ( 6)	<b>Good</b>
(11022) - Dry Run 1.80	<b>63.00</b>	14.0	14.0	15.0	5.00	7.0	4.0	75.90 - ( 4)	<b>Good</b>
<b>09-02 - (O'Bannon Creek)</b>									
(11010) - O'Bannon Creek 1.80	<b>71.25</b>	14.0	11.0	16.5	6.75	10.0	7.0	20.90 - ( 6)	<b>Good</b>
0.10	<b>71.00</b>	14.0	14.0	15.0	6.00	10.0	6.0	22.90 - ( 6)	<b>Good</b>
<b>12-08 - (Ninemile Creek-Ohio River)</b>									
(10001) - Five Mile Creek 2.40	<b>67.50</b>	16.0	15.0	15.0	5.50	7.0	5.0	70.60 - ( 4)	<b>Good</b>
0.10	<b>70.75</b>	16.5	14.0	14.0	6.25	11.0	5.0	73.40 - ( 4)	<b>Good</b>
(10002) - Eight Mile Creek 2.10	<b>71.00</b>	19.0	13.0	18.5	6.50	5.0	5.0	159.0 - ( 4)	<b>Good</b>
(10130) - Trib to Eight Mile Creek at RM 1.01 0.10	<b>71.50</b>	22.0	12.0	18.0	6.50	5.0	6.0	120.0 - ( 4)	<b>Good</b>
(10537) - Four Mile Creek 0.80	<b>66.00</b>	10.5	18.0	15.0	4.50	9.0	5.0	91.70 - ( 4)	<b>Good</b>
<b>13-05 - (East Fork Little Miami River)</b>									
(11100) - East Fork Little Miami River 19.50	<b>85.50</b>	19.0	13.0	18.0	9.50	10.0	6.0	6.10 - (10)	<b>Excellent</b>
15.00	<b>89.25</b>	19.0	19.0	18.0	7.25	10.0	6.0	6.27 - (10)	<b>Excellent</b>
13.70	<b>80.50</b>	16.5	15.0	15.0	5.00	12.0	7.0	6.61 - (10)	<b>Excellent</b>
13.20	<b>80.50</b>	16.0	14.0	16.0	5.50	12.0	7.0	6.92 - (10)	<b>Excellent</b>
11.00	<b>81.00</b>	16.0	15.0	16.0	5.00	12.0	7.0	6.79 - (10)	<b>Excellent</b>
9.10	<b>93.00</b>	21.0	19.0	18.0	6.00	12.0	8.0	6.77 - (10)	<b>Excellent</b>
5.60	<b>71.50</b>	14.0	15.0	14.0	4.50	10.0	4.0	7.04 - (10)	<b>Good</b>
4.30	<b>74.00</b>	14.0	16.0	13.0	7.00	9.0	5.0	6.93 - (10)	<b>Good</b>
2.00	<b>69.75</b>	14.0	14.0	13.0	5.75	9.0	4.0	7.06 - (10)	<b>Good</b>
1.00	<b>81.50</b>	15.0	17.0	16.0	4.50	12.0	7.0	6.99 - (10)	<b>Excellent</b>
0.70	<b>63.00</b>	14.0	15.0	11.0	6.00	7.0	0.0	6.95 - (10)	<b>Good</b>
<b>14-01 - (Sycamore Creek)</b>									
(11007) - Sycamore Creek 3.50	<b>60.75</b>	8.5	19.0	14.0	4.25	8.0	3.0	62.00 - ( 4)	<b>Good</b>
2.40	<b>73.00</b>	18.0	16.0	18.0	6.00	6.0	5.0	47.80 - ( 4)	<b>Good</b>
1.60	<b>72.50</b>	17.0	14.0	18.0	6.50	8.0	5.0	48.90 - ( 4)	<b>Good</b>

Appendix Table C-1. QHEI metric scores for stations sampled in the lower Little Miami (Cincinnati) study area during 2012.

River Mile	QHEI Metrics:								Narrative	
	QHEI	Substrate	Cover	Channel	Riparian	Pool	Riffle	Gradient & Score		
<b>14-01 - (Sycamore Creek)</b>										
(11007) - Sycamore Creek										
0.70	<b>65.25</b>	13.0	12.0	15.0	6.25	10.0	5.0	53.60 - ( 4)	<b>Good</b>	
0.50	<b>59.25</b>	12.5	12.0	9.5	4.25	9.0	6.0	38.10 - ( 6)	<b>Fair</b>	
0.20	<b>68.00</b>	14.5	12.0	12.0	6.00	11.0	6.5	38.40 - ( 6)	<b>Good</b>	
(11008) - North Branch Sycamore Creek										
5.00	<b>77.25</b>	17.0	17.0	18.0	4.75	8.0	4.5	34.70 - ( 8)	<b>Excellent</b>	
4.30	<b>83.00</b>	19.0	17.0	18.0	6.00	8.0	7.0	33.20 - ( 8)	<b>Excellent</b>	
2.10	<b>88.00</b>	19.0	18.0	18.0	7.00	12.0	6.0	39.80 - ( 8)	<b>Excellent</b>	
0.50	<b>72.75</b>	18.0	14.0	18.0	5.75	6.0	5.0	39.60 - ( 6)	<b>Good</b>	
0.10	<b>86.00</b>	20.0	20.0	18.0	6.00	10.0	6.0	39.60 - ( 6)	<b>Excellent</b>	
(11049) - Trib To Sycamore Cr. (RM 1.12)										
1.00	<b>73.50</b>	18.0	12.0	18.0	6.50	10.0	5.0	65.00 - ( 4)	<b>Good</b>	
0.30	<b>74.00</b>	17.0	13.0	18.0	7.00	10.0	5.0	66.30 - ( 4)	<b>Good</b>	
0.10	<b>66.00</b>	14.5	7.0	16.0	5.50	12.0	7.0	64.60 - ( 4)	<b>Good</b>	
(11073) - Unnamed Trib to N Branch Sycamore Creek at RM 5.4										
0.60	<b>71.00</b>	18.0	17.0	15.0	6.00	6.0	5.0	42.40 - ( 4)	<b>Good</b>	
(11074) - Unnamed Trib to N Br Sycamore Cr at RM 0.75										
1.40	<b>76.00</b>	19.0	18.0	18.0	7.00	5.0	5.0	75.00 - ( 4)	<b>Excellent</b>	
(11084) - Trib to North Branch Sycamore Creek ar RM 2.33										
1.80	<b>76.00</b>	17.0	18.0	19.0	7.00	6.0	5.0	60.10 - ( 4)	<b>Excellent</b>	
<b>14-02 - (Polk Run-Little Miami)</b>										
(11009) - Polk Run										
3.20	<b>82.00</b>	19.0	18.0	19.0	7.00	10.0	5.0	49.80 - ( 4)	<b>Excellent</b>	
3.00	<b>69.50</b>	15.0	15.0	16.0	6.50	10.0	3.0	50.50 - ( 4)	<b>Good</b>	
0.30	<b>68.00</b>	16.0	15.0	16.0	6.00	6.0	5.0	56.10 - ( 4)	<b>Good</b>	
(11069) - Unnamed Trib to Polk Run at RM 1.79										
2.50	<b>71.50</b>	18.0	13.0	19.0	6.50	5.0	6.0	56.40 - ( 4)	<b>Good</b>	
0.40	<b>78.00</b>	21.0	17.0	18.0	5.00	8.0	6.0	53.40 - ( 4)	<b>Excellent</b>	
(11070) - Unnamed Trib to Polk Run at RM 0.70										
2.00	<b>76.50</b>	18.0	18.0	19.0	6.50	6.0	5.0	142.0 - ( 4)	<b>Excellent</b>	
0.70	<b>75.00</b>	18.0	12.0	19.0	7.00	10.0	5.0	54.50 - ( 4)	<b>Excellent</b>	
(11071) - Unnamed Trib (RM 1.77) to Unnamed Trib to Polk Run										
0.20	<b>73.00</b>	18.0	16.0	19.0	6.00	5.0	5.0	43.70 - ( 4)	<b>Good</b>	
<b>14-04 - (Duck Creek)</b>										
(11004) - Duck Creek										
6.00	<b>20.00</b>	0.0	2.0	6.5	3.50	2.0	2.0	65.00 - ( 4)	<b>Very Poor</b>	
5.20	<b>18.50</b>	0.0	1.0	6.0	5.50	2.0	2.0	0.29 - ( 2)	<b>Very Poor</b>	

Appendix Table C-1. QHEI metric scores for stations sampled in the lower Little Miami (Cincinnati) study area during 2012.

River Mile	QHEI	QHEI Metrics:						Gradient & Score	Narrative
		Substrate	Cover	Channel	Riparian	Pool	Riffle		
<b>14-04 - (Duck Creek)</b>									
<b>(11004) - Duck Creek</b>									
4.60	<b>40.00</b>	13.0	7.0	7.0	4.50	4.0	0.5	46.60 - ( 4)	Poor
4.40	<b>18.50</b>	-1.0	1.0	7.0	3.50	2.0	2.0	44.60 - ( 4)	Very Poor
3.30	<b>22.50</b>	-1.0	1.0	7.0	5.50	2.0	2.0	35.70 - ( 6)	Very Poor
2.90	<b>33.50</b>	5.0	4.0	8.0	5.00	4.0	1.5	31.20 - ( 6)	Poor
1.80	<b>48.00</b>	13.5	8.0	8.5	4.50	4.0	1.5	29.80 - ( 8)	Fair
<b>(11051) - East Fork Duck Creek</b>									
1.90	<b>59.00</b>	13.5	13.0	14.0	4.50	7.0	3.0	133.0 - ( 4)	Fair
0.50	<b>39.00</b>	12.0	9.0	8.0	4.00	2.0	0.0	116.0 - ( 4)	Poor
0.15	<b>51.00</b>	11.0	13.0	13.0	4.00	5.0	1.0	106.0 - ( 4)	Fair
<b>(11075) - Unnamed Trib to Duck Creek at RM 4.8</b>									
0.20	<b>36.50</b>	13.0	5.0	8.5	3.00	2.0	1.0	114.0 - ( 4)	Poor
<b>(11076) - Little Duck Creek</b>									
2.70	<b>46.50</b>	12.5	9.0	10.0	5.00	4.0	2.0	388.0 - ( 4)	Fair
2.60	<b>48.75</b>	11.5	7.0	14.0	5.25	4.0	3.0	384.0 - ( 4)	Fair
2.40	<b>59.00</b>	15.5	12.0	14.5	6.50	4.0	2.5	339.0 - ( 4)	Fair
1.40	<b>37.00</b>	10.0	8.0	8.0	4.00	3.0	0.0	196.0 - ( 4)	Poor
<b>14-05 - (Dry Run-Little Miami)</b>									
<b>(11005) - Dry Run</b>									
5.60	<b>62.50</b>	16.0	11.0	14.0	6.50	7.0	4.0	64.60 - ( 4)	Good
4.10	<b>56.50</b>	16.0	8.0	11.0	6.50	7.0	4.0	97.30 - ( 4)	Fair
2.50	<b>76.50</b>	18.0	18.0	16.0	6.50	9.0	5.0	90.30 - ( 4)	Excellent
<b>14-06 - (Clough Creek-Little)</b>									
<b>(11002) - Clough Creek</b>									
4.60	<b>56.25</b>	14.0	11.0	15.0	6.25	3.0	3.0	61.80 - ( 4)	Fair
3.20	<b>56.50</b>	16.0	10.0	15.0	4.50	4.0	3.0	85.40 - ( 4)	Fair
3.00	<b>57.75</b>	16.0	10.0	14.0	4.75	5.0	4.0	87.10 - ( 4)	Fair
1.20	<b>65.00</b>	15.5	12.0	16.0	5.50	9.0	3.0	71.60 - ( 4)	Good
0.60	<b>57.50</b>	16.5	7.0	13.0	7.00	6.0	4.0	66.60 - ( 4)	Fair
<b>(11003) - McCullough Run</b>									
1.30	<b>37.00</b>	12.0	9.0	5.0	4.00	3.0	0.0	57.80 - ( 4)	Poor
<b>(11078) - Unnamed Trib to McCullough Run at RM 1.08</b>									
1.50	<b>56.75</b>	16.5	11.0	11.0	6.75	4.0	3.5	173.0 - ( 4)	Fair
<b>(11079) - Trib to Unnamed Trib to Clough Creek at RM3.06</b>									
1.05	<b>58.75</b>	16.0	10.0	13.0	4.75	7.0	4.0	89.30 - ( 4)	Fair

Appendix Table C-1. QHEI metric scores for stations sampled in the lower Little Miami (Cincinnati) study area during 2012.

River Mile	QHEI Metrics:								Narrative
	QHEI	Substrate	Cover	Channel	Riparian	Pool	Riffle	Gradient & Score	
<b>(11081) - UT at RM 0.95 to UT to Clough Creek at RM 3.06</b>									
0.20	<b>60.75</b>	16.0	11.0	14.0	4.75	7.0	4.0	83.10 - ( 4)	<b>Good</b>
<b>90-02 - (Little Miami River, O'Bannon Creek to Ohio</b>									
<b>(11001) - Little Miami River</b>									
27.80	<b>73.00</b>	20.0	9.0	15.0	7.00	6.0	6.0	6.60 - (10)	<b>Good</b>
23.70	<b>76.50</b>	16.0	13.0	14.5	7.00	11.0	5.0	6.47 - (10)	<b>Excellent</b>
22.10	<b>69.50</b>	14.0	11.0	14.0	7.00	9.0	4.5	6.44 - (10)	<b>Good</b>
21.70	<b>75.00</b>	17.5	12.0	16.0	6.50	8.0	5.0	6.45 - (10)	<b>Excellent</b>
21.25	<b>74.00</b>	19.5	11.0	14.0	7.00	9.0	3.5	6.43 - (10)	<b>Good</b>
20.60	<b>82.00</b>	18.0	12.0	16.0	8.00	11.0	7.0	6.39 - (10)	<b>Excellent</b>
18.40	<b>72.00</b>	14.0	9.0	15.0	7.00	10.0	7.0	6.36 - (10)	<b>Good</b>
17.60	<b>84.00</b>	16.5	14.0	16.5	8.00	12.0	7.0	6.24 - (10)	<b>Excellent</b>
12.90	<b>81.50</b>	17.5	13.0	16.5	6.50	12.0	6.0	6.19 - (10)	<b>Excellent</b>
11.80	<b>75.50</b>	17.5	11.0	14.0	6.50	10.0	6.5	6.12 - (10)	<b>Excellent</b>
11.20	<b>88.50</b>	18.0	14.0	19.0	8.00	12.0	7.5	6.17 - (10)	<b>Excellent</b>
8.30	<b>73.50</b>	16.0	9.0	15.5	7.00	11.0	5.0	6.09 - (10)	<b>Good</b>
7.10	<b>75.00</b>	16.0	17.0	13.0	6.50	9.0	3.5	6.08 - (10)	<b>Excellent</b>
6.00	<b>54.50</b>	14.0	3.0	14.0	6.00	5.0	2.5	6.07 - (10)	<b>Fair</b>
4.30	<b>59.50</b>	14.0	3.0	13.5	6.50	8.0	4.5	6.13 - (10)	<b>Fair</b>
3.00	<b>72.25</b>	15.5	12.0	15.0	6.25	10.0	3.5	6.16 - (10)	<b>Good</b>
1.40	<b>64.00</b>	12.0	16.0	12.0	6.00	8.0	0.0	6.18 - (10)	<b>Good</b>
<b>(11047) - Unnamed Trib to Little Miami River at RM 0.83</b>									
0.20	<b>65.00</b>	14.0	15.0	16.0	7.00	6.0	3.0	141.0 - ( 4)	<b>Good</b>
<b>(11066) - Unnamed Trib to Little Miami River at RM 13.1</b>									
1.50	<b>63.00</b>	18.0	11.0	14.0	8.00	5.0	3.0	121.0 - ( 4)	<b>Good</b>
<b>(11067) - Unnamed Trib to Little Miami River at RM 7.75</b>									
1.20	<b>70.00</b>	17.0	15.0	15.5	8.50	5.0	5.0	226.0 - ( 4)	<b>Good</b>
<b>(11068) - Unnamed Trib (RM 2.7) to Unnamed Trib to Little Mi</b>									
0.50	<b>70.00</b>	17.0	13.0	14.0	8.00	4.0	4.0	6.18 - (10)	<b>Good</b>

## **Appendix D**

### **Little Miami River 2012 Primary Headwater Habitat Data**

Appendix Table D-1. Key biological and habitat variables used in the Little Miami River watershed study to distinguish PHW from larger stream aquatic life uses (e.g., WWH).

Site ID	River Mile	D.A. (sq mi)	HHEI		QHEI		Fish				Macros		Salamanders AdultLarvae	Aquatic Life Use.		
			HHEI	Pool Scr	Flow Scr	QHEI	Pool Scr	Total Sp.	Sens Sp.	HW % Sp.	Pio- near	Qual EPT.			CW Taxa	
<b>08-03 - (Turtle Creek)</b>																
<i>[11-022] - Dry Run</i>																
RF09	1.80	4.9				70-100 cm	11	1	2	26					WWH	
<b>12-08 - (Ninemile Creek-Ohio River)</b>																
<i>[10-001] - Five Mile Creek</i>																
LM107	2.40	2.6	67	20	4	67.5	20-40 cm	4	0	1	27	5	0		WWH	
LM108	0.10	4.8				70.7	> 100 cm	22	7	2	27	5	0		WWH	
<i>[10-002] - Eight Mile Creek</i>																
LM105	2.00	0.8	90	20	4	71.0	20-40 cm	1	0		100	2	0	4	PHW3A	
<i>[10-130] - Trib to Eight Mile Creek at RM 1.01</i>																
LM106	0.10	1.1	68	20	4	71.5	20-40 cm	3	0	1	78	4	0	7	PHW3A	
<i>[10-537] - Four Mile Creek</i>																
LM104	0.70	1.1	77	20	4	66.0	70-100 cm	2	0	1	82	4	0	3	WWH	
<b>14-01 - (Sycamore Creek)</b>																
<i>[11-007] - Sycamore Creek</i>																
LM47	3.50	3.5				60.7	70-100 cm	4	0	1	54	3	0		WWH	
LM48	2.40	4.8				73.0	40-70 cm	3	0	1	52	5	0		WWH	
<i>[11-008] - North Branch Sycamore Creek</i>																
LM57	5.00	2.9				77.2	40-70 cm	7	0	1	36	6	0		WWH	
LM58	3.70	4.4				83.0	40-70 cm	8	0	2	22	7	0		WWH	
<i>[11-072] - Unnamed Trib to N Branch Sycamore Creek at RM 5.3</i>																
LM65	0.75	0.3	44		1			1							PHW2	
<i>[11-073] - Unnamed Trib to N Branch Sycamore Creek at RM 5.4</i>																
LM63	0.60	1.1	74	20	4	71.0	40-70 cm	5	0	1	54	1	0		WWH	
<i>[11-074] - Unnamed Trib to N Br Sycamore Cr at RM 0.75</i>																
LM64	1.40	0.5	63	20	4	76.0	20-40 cm	1	0		100	0	0	1	3	PHW3A
<i>[11-084] - Trib to North Branch Sycamore Creek at RM 2.33</i>																
LM62	1.65	0.6	67	20	4	76.0	40-70 cm	1	0		100	1	1	1	1	PHW3A
<i>[11-086] - Unnamed Trib (1.82) to Trib to Sycamore Creek (1.1</i>																
LM54	0.40	1.6	58		1			1							PHW2	
<b>14-02 - (Polk Run-Little Miami)</b>																
<i>[11-009] - Polk Run</i>																
LM39	2.90	2.7				69.5	> 100 cm	9	0	2	64	6	1		WWH	
<i>[11-048] - Polk Run</i>																
LM46	3.20	2.6	80	20	4	82.0	> 100 cm	8		1		5	0	2	WWH	
<i>[11-069] - Unnamed Trib to Polk Run at RM 1.79</i>																
LM41	2.50	1.3	86	20	4	71.5	20-40 cm	7	0	1	48	5	1	3	WWH	
LM44	0.40	2.4	86	20	4	78.0	70-100 cm	8	0	1	71	7	0	3	WWH	
<i>[11-070] - Unnamed Trib to Polk Run at RM 0.70</i>																
LM43	0.70	2.5	78	20	4	75.0	> 100 cm	5	0	1	53	5	0	1	WWH	
<i>[11-071] - Unnamed Trib (RM 1.77) to Unnamed Trib to Polk Run</i>																
LM45	0.20	1.1	86	20	4	73.0	20-40 cm	5	0	1	68	6	1	3	WWH	

Appendix Table D-1. Key biological and habitat variables used in the Little Miami River watershed study to distinguish PHW from larger stream aquatic life uses (e.g., WWH).

Site ID	River Mile	D.A. (sq mi)	HHEI		QHEI		Fish				Macros		Salamanders AdultLarvae	Aquatic Life Use.		
			HHEI	Pool Scr	Flow Scr	QHEI	Pool Scr	Total Sp.	Sens Sp.	HW % Sp.	Pio- near	Qual EPT.			CW Taxa	
<b>14-04 - (Duck Creek)</b>																
<i>[11-004] - Duck Creek</i>																
LM71	6.00	2.2	66	30	4	20.0	< 20 cm					0	0		LRW	
LM78	5.20	3.5	57	15	4	18.5	< 20 cm					1	0		LRW	
<i>[11-051] - East Fork Duck Creek</i>																
LM85	1.50	1.3	69	20	4	59.0	70-100 cm	3	0	1	71	0	0		WWH	
LM84	0.50	2.4	71	20	4	39.0	20-40 cm	4	0	1	67	1	0		MWH	
LM74	0.15	3.4	72	20	4	51.0	40-70 cm	8	0	1	58	3	1		WWH	
<i>[11-075] - Unnamed Trib to Duck Creek at RM 4.8</i>																
LM83	0.80	1.2	41		1			1							PHW2	
LM80	0.10	1.4	60	20	4	36.5	20-40 cm	1	0		100	0	0		LRW	
<i>[11-076] - Little Duck Creek</i>																
LM86	2.70	0.4	71	20	4	46.5	40-70 cm	4	0	1	39	7	0	5	WWH	
LM87	2.60	0.5	78	20	4	48.7	40-70 cm	4	0	1	40	6	1	3	WWH	
LM90	2.30	0.5	86	30	4	59.0	20-40 cm	4	0	1	47	5	1	3	WWH	
LM88	1.70	0.8	51		1			1							WWH	
LM89	1.30	1.1	66	20	4	37.0	40-70 cm	5	0	1	69	2	1	1	2	WWH
LM91	1.00	14.5						1							WWH	
LM92	0.20	1.7						1							WWH	
<i>[11-077] - Unnamed Trib to Little Duck Creek at RM 4.42</i>																
LM82	0.10	1.4	76	25	4	-99.0		1				0	0	4	WWH	
<b>14-05 - (Dry Run-Little Miami)</b>																
<i>[11-005] - Dry Run</i>																
LM70	5.50	0.8	62	20	4	62.5	70-100 cm	1	0		100	4	0	7	PHW3A	
LM66	4.10	3.2				56.5	70-100 cm	4	0	1	28	6	0		WWH	
LM67	2.50	4.7				76.5	70-100 cm	10	2	1	22	8	0		WWH	
<i>[11-064] - Trib to Dry Run (4.20)</i>																
LM69	0.10	0.9	70	20	4	-99.0		1				7	1	10	PHW3A	
<b>14-06 - (Clough Creek-Little)</b>																
<i>[11-002] - Clough Creek</i>																
LM99	4.60	0.9	71	20	4	56.2	20-40 cm	2	0	1	63	3	1	3	PHW3A	
LM95	3.20	2.0	72	20	4	56.5	20-40 cm	5	1	1	39	3	0	1	2	WWH
LM96	3.00	5.4	72	20	4	57.7	40-70 cm	9	1	1	47	6	0	3	WWH	
<i>[11-003] - McCullough Run</i>																
LM94	1.30	1.7	54	20	4	37.0	20-40 cm	12	1	1	78	0	0		WWH	
<i>[11-078] - Unnamed Trib to McCullough Run at RM 1.08</i>																
LM93	1.40	0.9	72	20	4	56.7	20-40 cm	7	1	2	40	5	0	7	WWH	
<i>[11-079] - Trib to Unnamed Trib to Clough Creek at RM3.06</i>																
LM101	1.00	0.7	72	20	4	58.7	70-100 cm	2	0	1	80	4	0	5	WWH	
<i>[11-080] - UT at RM 0.66 to UT to Clough Creek at RM 3.06</i>																
LM102	0.20	1.1	72	20	4	-99.0		1				2	2		PHW2	
<i>[11-081] - UT at RM 0.95 to UT to Clough Creek at RM 3.06</i>																
LM100	0.10	0.9	62	20	4	60.7	70-100 cm	5	0		93	2	0		WWH	

Appendix Table D-1. Key biological and habitat variables used in the Little Miami River watershed study to distinguish PHW from larger stream aquatic life uses (e.g., WWH).

Site ID	River Mile	D.A. (sq mi)	HHEI		QHEI		Fish			Macros		Salamanders AdultLarvae	Aquatic Life Use.		
			HHEI	Pool Scr	Flow Scr	QHEI	Pool Scr	Total Sp.	Sens Sp.	HW % Sp.	Pio- near			Qual EPT.	CW Taxa
<b>90-02 - (Little Miami River, O'Bannon Creek to Ohio)</b>															
<i>[11-047] - Unnamed Trib to Little Miami River at RM 0.83</i>															
LM103	0.10	1.7	65	20	4	65.0	20-40 cm	17	6	1	53	2	0	6	WWH
<i>[11-066] - Unnamed Trib to Little Miami River at RM 13.1</i>															
LM21	1.50	3.0				63.0	40-70 cm	6	1	2	15	7	1		WWH
<i>[11-067] - Unnamed Trib to Little Miami River at RM 7.75</i>															
LM20	1.20	0.5	72	20	4	70.0	40-70 cm	2	0	1	75	5	0	2	PHW3A
<i>[11-082] - Unnamed Trib to Little Miami River at 24.06</i>															
LM23	0.20	1.6	50		1			1							PHW2
<i>[11-083] - Unnamed Trib to Little Miami River at RM 21.82</i>															
LM24	0.10	0.8	50		1			1							PHW2
<i>[11-085] - Unnamed Trib to Little Miami River at 13.8</i>															
LM22	0.30	1.2	58		1			1							PHW2



**Appendix E**

**Little Miami River 2012 Chemical Water Quality Data**

**Enclosed DVD**

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

**Qualifiers and "A" Codes**

AA- Contract Lab Data Non Detected

AE - Analysis not valid

AH - Sample not taken

AS - Broken/Leak in transit

AW - analysis not performed

b- Data not reported by Contract Lab

\* - Bod/CBOD standard out of spec

B - Blank out of spec

J - estimated value

S - Spike Recovery out of spec

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	MF_CF	Fecal Coliform, Membrane Filter	240	CFU/100mL	
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	E-COLI	E.coli (Colilert)	308	MPN	
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	TDS	Total Dissolved Solids	490	mg/L	
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	SO4	Sulfate	99.9	mg/L	1.00
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	CL	Chloride	103	mg/L	1.00
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	TSS	Tot. Suspended Solids	4	mg/L	2
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	HARD	Hardness as CaCO3	256	mg/l	
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	COD	COD	27	mg/L	
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	874	uS/cm	
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	TEMP_FLD	Temperature (Field) Celsius	24.77	Deg C	
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	PH_FLD	pH (Field)	8.50	S.U.	
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	DO_FLD	Dissolved Oxygen (field) mg/L	5.38	mg/l	
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	878	uS/cm	
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	\$ICP	Antimony	0.00	mg/L	0.006
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	\$ICP	Arsenic	0.0228	mg/L	0.012
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	\$ICP	Barium	0.0289	mg/L	0.003
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	\$ICP	Calcium	63.2	mg/L	0.066
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	\$ICP	Chromium	0.00	mg/L	0.006
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	\$ICP	Copper	0.00861	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	\$ICP	Iron	0.0653	mg/L	0.018
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	\$ICP	Lead	0.00	mg/L	0.006
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	\$ICP	Magnesium	16.2	mg/L	0.021
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	\$ICP	Manganese	0.0173	mg/L	0.009
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	\$ICP	Nickel	0.00	mg/L	0.003
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	\$ICP	Selenium	0.0275	mg/L	0.009
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	\$ICP	Silver	0.00	mg/L	0.003
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	\$ICP	Strontium	0.265	mg/L	0.009
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	\$ICP	Thallium	0.0125	mg/L	0.012
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	\$ICP	Tin	0.00	mg/L	0.006
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	\$ICP	Zinc	0.0276	mg/L	0.006
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	PB_FU	Lead by Furnace	0	ug/L	1
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	AS_FU	Arsenic by Furnace	2.7	ug/L	1.0
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	CD_FU	Cadmium by Furnace	0	ug/L	1
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	CU_FU	Copper by Furnace	9.3	ug/L	1
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	NH3	Ammonia as N	0	mg/L	0.5
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	NO3NO2	Nitrate + Nitrite	14.40	mg/L	0.5
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	TKP	Total Kjeldahl Phosphorus	1.187	mg/L	0.5
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	NO2	Nitrite as N	0.2491	mg/l	0.005
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	NO3	Nitrate as N (calculated)	14.1509	mg/l	
AC02780	LM38	Little Miami Watershed	38	6/25/2012	09:30	CHLOROPHYLL	Chlorophyll	8.01	mg/m3	1.00
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	MF_CF	Fecal Coliform, Membrane Filter	43	CFU/100mL	
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	E-COLI	E.coli (Colilert)	64	MPN	
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	TDS	Total Dissolved Solids	390	mg/L	
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	SO4	Sulfate	43.2	mg/L	1.00
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	CL	Chloride	68.9	mg/L	1.00
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	TSS	Tot. Suspended Solids	12	mg/L	2
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	SSC	Suspended Sediment Concentration	10.0	mg/L	5.0
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	HARD	Hardness as CaCO3	232	mg/l	
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	COD	COD	36	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	727	uS/cm	
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	TEMP_FLD	Temperature (Field) Celsius	26.65	Deg C	
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	PH_FLD	pH (Field)	8.20	S.U.	
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	DO_FLD	Dissolved Oxygen (field) mg/L	7.88	mg/l	
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	705	uS/cm	
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	\$ICP	Aluminum	0.00	mg/L	0.348
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	\$ICP	Antimony	0.00	mg/L	0.006
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	\$ICP	Arsenic	0.0440	mg/L	0.012
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	\$ICP	Barium	0.0719	mg/L	0.003
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	\$ICP	Calcium	68.8	mg/L	0.066
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	\$ICP	Chromium	0.00	mg/L	0.006
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	\$ICP	Copper	0.00	mg/L	0.006
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	\$ICP	Iron	0.225	mg/L	0.018
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	\$ICP	Lead	0.00639	mg/L	0.006
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	\$ICP	Magnesium	26.9	mg/L	0.021
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	\$ICP	Manganese	0.0266	mg/L	0.009
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	\$ICP	Nickel	0.00	mg/L	0.003
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	\$ICP	Selenium	0.0281	mg/L	0.009
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	\$ICP	Silver	0.00	mg/L	0.003
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	\$ICP	Strontium	0.428	mg/L	0.009
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	\$ICP	Thallium	0.00	mg/L	0.012
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	\$ICP	Tin	0.00	mg/L	0.006
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	\$ICP	Zinc	0.0338	mg/L	0.006
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	PB_FU	Lead by Furnace	0	ug/L	1
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	AS_FU	Arsenic by Furnace	2.1	ug/L	1.0
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	CD_FU	Cadmium by Furnace	0	ug/L	1
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	CU_FU	Copper by Furnace	3.7	ug/L	1
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	NH3	Ammonia as N	0	mg/L	0.5
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	NO3NO2	Nitrate + Nitrite	4.20	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	TKN	Total Kjeldahl Nitrogen	0.9813	mg/L	0.5
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	NO2	Nitrite as N	0.0363	mg/l	0.005
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	NO3	Nitrate as N (calculated)	4.1637	mg/l	
AC02781	LM05	Little Miami Watershed	5	6/25/2012	10:20	CHLOROPHYLL	Chlorophyll	6.94	mg/m3	1.00
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	MF_CF	Fecal Coliform, Membrane Filter	36	CFU/100mL	
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	E-COLI	E.coli (Colilert)	59	MPN	
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	TDS	Total Dissolved Solids	430	mg/L	
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	SO4	Sulfate	43.8	mg/L	1.00
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	CL	Chloride	67.3	mg/L	1.00
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	TSS	Tot. Suspended Solids	18	mg/L	2
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	SSC	Suspended Sediment Concentration	15.0	mg/L	5.0
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	HARD	Hardness as CaCO3	236	mg/l	
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	COD	COD	31	mg/L	
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	720	uS/cm	
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	TEMP_FLD	Temperature (Field) Celsius	26.29	Deg C	
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	PH_FLD	pH (Field)	8.09	S.U.	
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	DO_FLD	Dissolved Oxygen (field) mg/L	7.41	mg/l	
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	702	uS/cm	
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	\$ICP	Antimony	0.00	mg/L	0.006
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	\$ICP	Arsenic	0.0208	mg/L	0.012
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	\$ICP	Barium	0.0716	mg/L	0.003
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	\$ICP	Calcium	67.6	mg/L	0.066
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	\$ICP	Chromium	0.00	mg/L	0.006
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	\$ICP	Copper	0.00	mg/L	0.006
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	\$ICP	Iron	0.340	mg/L	0.018
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	\$ICP	Lead	0.00	mg/L	0.006
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	\$ICP	Magnesium	26.7	mg/L	0.021

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	\$ICP	Manganese	0.0320	mg/L	0.009
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	\$ICP	Nickel	0.00	mg/L	0.003
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	\$ICP	Selenium	0.0351	mg/L	0.009
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	\$ICP	Silver	0.00	mg/L	0.003
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	\$ICP	Strontium	0.419	mg/L	0.009
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	\$ICP	Thallium	0.00	mg/L	0.012
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	\$ICP	Tin	0.00	mg/L	0.006
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	\$ICP	Zinc	0.0147	mg/L	0.006
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	PB_FU	Lead by Furnace	1.0	ug/L	1
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	AS_FU	Arsenic by Furnace	2.1	ug/L	1.0
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	CD_FU	Cadmium by Furnace	0	ug/L	1
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	CU_FU	Copper by Furnace	3.9	ug/L	1
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	NH3	Ammonia as N	0	mg/L	0.5
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	NO3NO2	Nitrate + Nitrite	3.37	mg/L	0.5
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	TKN	Total Kjeldahl Nitrogen	1.142	mg/L	0.5
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	NO2	Nitrite as N	0.0381	mg/l	0.005
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	NO3	Nitrate as N (calculated)	3.3319	mg/l	
AC02782	LM02	Little Miami Watershed	2	6/25/2012	09:50	CHLOROPHYLL	Chlorophyll	7.48	mg/m3	1.00
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	MF_CF	Fecal Coliform, Membrane Filter	AE	CFU/100mL	
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	E-COLI	E.coli (Colilert)	61	MPN	
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	TDS	Total Dissolved Solids	380	mg/L	
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	SO4	Sulfate	46.5	mg/L	1.00
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	CL	Chloride	70.7	mg/L	1.00
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	TSS	Tot. Suspended Solids	6	mg/L	2
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	SSC	Suspended Sediment Concentration	10.0	mg/L	5.0
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	HARD	Hardness as CaCO3	286	mg/l	
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	COD	COD	20	mg/L	
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	721	uS/cm	
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	TEMP_FLD	Temperature (Field) Celsius	26.15	Deg C	
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	PH_FLD	pH (Field)	8.11	S.U.	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	DO_FLD	Dissolved Oxygen (field) mg/L	6.48	mg/l	
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	706	uS/cm	
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	\$ICP	Aluminum	0.00	mg/L	0.348
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	\$ICP	Antimony	0.00	mg/L	0.006
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	\$ICP	Arsenic	0.0178	mg/L	0.012
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	\$ICP	Barium	0.0700	mg/L	0.003
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	\$ICP	Calcium	67.6	mg/L	0.066
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	\$ICP	Chromium	0.00	mg/L	0.006
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	\$ICP	Copper	0.00	mg/L	0.006
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	\$ICP	Iron	0.278	mg/L	0.018
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	\$ICP	Lead	0.00	mg/L	0.006
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	\$ICP	Magnesium	26.0	mg/L	0.021
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	\$ICP	Manganese	0.0353	mg/L	0.009
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	\$ICP	Nickel	0.00	mg/L	0.003
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	\$ICP	Selenium	0.0396	mg/L	0.009
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	\$ICP	Silver	0.00	mg/L	0.003
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	\$ICP	Strontium	0.417	mg/L	0.009
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	\$ICP	Thallium	0.00	mg/L	0.012
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	\$ICP	Tin	0.00	mg/L	0.006
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	\$ICP	Zinc	0.00	mg/L	0.006
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	PB_FU	Lead by Furnace	0	ug/L	1
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	AS_FU	Arsenic by Furnace	2.0	ug/L	1.0
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	CD_FU	Cadmium by Furnace	0	ug/L	1
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	CU_FU	Copper by Furnace	2.7	ug/L	1
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	NH3	Ammonia as N	0	mg/L	0.5
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	NO3NO2	Nitrate + Nitrite	3.37	mg/L	0.5
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	TKN	Total Kjeldahl Nitrogen	1.019	mg/L	0.5
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	NO2	Nitrite as N	0.0326	mg/l	0.005

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	NO3	Nitrate as N (calculated)	3.3374	mg/l	
AC02783	LM07	Little Miami Watershed	7	6/25/2012	11:20	CHLOROPHYLL	Chlorophyll	10.1	mg/m3	1.00
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	MF_CF	Fecal Coliform, Membrane Filter	186	CFU/100mL	
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	E-COLI	E.coli (Colilert)	326	MPN	
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	TDS	Total Dissolved Solids	410	mg/L	
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	SO4	Sulfate	49.2	mg/L	1.00
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	CL	Chloride	70.3	mg/L	1.00
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	TSS	Tot. Suspended Solids	14	mg/L	2
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	SSC	Suspended Sediment Concentration	11.0	mg/L	5.0
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	HARD	Hardness as CaCO3	284	mg/l	
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	COD	COD	19	mg/L	
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	727	uS/cm	
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	TEMP_FLD	Temperature (Field) Celsius	27.11	Deg C	
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	PH_FLD	pH (Field)	8.22	S.U.	
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	DO_FLD	Dissolved Oxygen (field) mg/L	7.54	mg/l	
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	699	uS/cm	
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	\$ICP	Antimony	0.00	mg/L	0.006
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	\$ICP	Arsenic	0.0187	mg/L	0.012
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	\$ICP	Barium	0.0695	mg/L	0.003
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	\$ICP	Calcium	67.9	mg/L	0.066
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	\$ICP	Chromium	0.00	mg/L	0.006
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	\$ICP	Copper	0.00	mg/L	0.006
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	\$ICP	Iron	0.299	mg/L	0.018
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	\$ICP	Lead	0.00826	mg/L	0.006
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	\$ICP	Magnesium	26.0	mg/L	0.021
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	\$ICP	Manganese	0.0340	mg/L	0.009
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	\$ICP	Nickel	0.00	mg/L	0.003
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	\$ICP	Selenium	0.0158	mg/L	0.009



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	\$ICP	Silver	0.00	mg/L	0.003
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	\$ICP	Strontium	0.416	mg/L	0.009
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	\$ICP	Thallium	0.00	mg/L	0.012
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	\$ICP	Tin	0.00	mg/L	0.006
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	\$ICP	Zinc	0.0154	mg/L	0.006
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	PB_FU	Lead by Furnace	0	ug/L	1
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	AS_FU	Arsenic by Furnace	2.1	ug/L	1.0
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	CD_FU	Cadmium by Furnace	0	ug/L	1
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	CU_FU	Copper by Furnace	4.3	ug/L	1
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	NH3	Ammonia as N	0	mg/L	0.5
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	NO3NO2	Nitrate + Nitrite	6.41	mg/L	0.5
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	TKN	Total Kjeldahl Nitrogen	1.104	mg/L	0.5
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	NO2	Nitrite as N	0.0324	mg/l	0.005
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	NO3	Nitrate as N (calculated)	6.3776	mg/l	
AC02784	LM08	Little Miami Watershed	8	6/25/2012	11:40	CHLOROPHYLL	Chlorophyll	13.4	mg/m3	1.00
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	MF_CF	Fecal Coliform, Membrane Filter	36	CFU/100mL	
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	E-COLI	E.coli (Colilert)	29	MPN	
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	TDS	Total Dissolved Solids	340	mg/L	
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	SO4	Sulfate	47.8	mg/L	1.00
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	CL	Chloride	76.1	mg/L	1.00
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	TSS	Tot. Suspended Solids	10	mg/L	2
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	SSC	Suspended Sediment Concentration	11.0	mg/L	5.0
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	HARD	Hardness as CaCO3	288	mg/l	
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	COD	COD	27	mg/L	
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	735	uS/cm	
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	TEMP_FLD	Temperature (Field) Celsius	27.05	Deg C	
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	PH_FLD	pH (Field)	8.26	S.U.	
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	DO_FLD	Dissolved Oxygen (field) mg/L	8.55	mg/l	
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	708	uS/cm	
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	\$ICP	Aluminum	0.00	mg/L	0.348

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	\$ICP	Antimony	0.00	mg/L	0.006
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	\$ICP	Arsenic	0.0156	mg/L	0.012
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	\$ICP	Barium	0.0699	mg/L	0.003
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	\$ICP	Calcium	69.0	mg/L	0.066
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	\$ICP	Chromium	0.00	mg/L	0.006
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	\$ICP	Copper	0.00	mg/L	0.006
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	\$ICP	Iron	0.264	mg/L	0.018
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	\$ICP	Lead	0.00601	mg/L	0.006
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	\$ICP	Magnesium	26.0	mg/L	0.021
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	\$ICP	Manganese	0.0302	mg/L	0.009
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	\$ICP	Nickel	0.00	mg/L	0.003
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	\$ICP	Selenium	0.0338	mg/L	0.009
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	\$ICP	Silver	0.00	mg/L	0.003
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	\$ICP	Strontium	0.412	mg/L	0.009
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	\$ICP	Thallium	0.00	mg/L	0.012
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	\$ICP	Tin	0.00	mg/L	0.006
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	\$ICP	Zinc	0.0184	mg/L	0.006
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	PB_FU	Lead by Furnace	0	ug/L	1
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	AS_FU	Arsenic by Furnace	2.1	ug/L	1.0
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	CD_FU	Cadmium by Furnace	0	ug/L	1
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	CU_FU	Copper by Furnace	3.4	ug/L	1
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	NH3	Ammonia as N	0	mg/L	0.5
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	NO3NO2	Nitrate + Nitrite	3.44	mg/L	0.5
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	TKN	Total Kjeldahl Nitrogen	1.186	mg/L	0.5
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	NO2	Nitrite as N	0.0314	mg/l	0.005
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	NO3	Nitrate as N (calculated)	3.4086	mg/l	
AC02785	LM09	Little Miami Watershed	9	6/25/2012	12:00	CHLOROPHYLL	Chlorophyll	10.1	mg/m3	1.00
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	MF_CF	Fecal Coliform, Membrane Filter	43	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	E-COLI	E.coli (Colilert)	71	MPN	
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	TDS	Total Dissolved Solids	390	mg/L	
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	SO4	Sulfate	48.2	mg/L	1.00
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	CL	Chloride	69.5	mg/L	1.00
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	TSS	Tot. Suspended Solids	10	mg/L	2
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	SSC	Suspended Sediment Concentration	13.0	mg/L	5.0
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	HARD	Hardness as CaCO3	288	mg/l	
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	COD	COD	39	mg/L	
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	725	uS/cm	
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	TEMP_FLD	Temperature (Field) Celsius	26.52	Deg C	
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	PH_FLD	pH (Field)	8.11	S.U.	
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	DO_FLD	Dissolved Oxygen (field) mg/L	6.56	mg/l	
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	705	uS/cm	
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	\$ICP	Antimony	0.00	mg/L	0.006
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	\$ICP	Arsenic	0.0249	mg/L	0.012
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	\$ICP	Barium	0.0711	mg/L	0.003
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	\$ICP	Calcium	68.5	mg/L	0.066
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	\$ICP	Chromium	0.00	mg/L	0.006
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	\$ICP	Copper	0.00	mg/L	0.006
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	\$ICP	Iron	0.328	mg/L	0.018
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	\$ICP	Lead	0.00	mg/L	0.006
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	\$ICP	Magnesium	26.4	mg/L	0.021
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	\$ICP	Manganese	0.0370	mg/L	0.009
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	\$ICP	Nickel	0.00	mg/L	0.003
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	\$ICP	Selenium	0.0343	mg/L	0.009
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	\$ICP	Silver	0.00	mg/L	0.003
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	\$ICP	Strontium	0.421	mg/L	0.009
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	\$ICP	Thallium	0.00	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	\$ICP	Tin	0.00	mg/L	0.006
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	\$ICP	Zinc	0.0141	mg/L	0.006
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	PB_FU	Lead by Furnace	0	ug/L	1
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	AS_FU	Arsenic by Furnace	2.2	ug/L	1.0
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	CD_FU	Cadmium by Furnace	0	ug/L	1
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	CU_FU	Copper by Furnace	4.5	ug/L	1
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	NH3	Ammonia as N	0	mg/L	0.5
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	NO3NO2	Nitrate + Nitrite	4.65	mg/L	0.5
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	TKN	Total Kjeldahl Nitrogen	0.8041	mg/L	0.5
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	NO2	Nitrite as N	0.0333	mg/l	0.005
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	NO3	Nitrate as N (calculated)	4.6167	mg/l	
AC02786	LM06	Little Miami Watershed	6	6/25/2012	10:40	CHLOROPHYLL	Chlorophyll	7.48	mg/m3	1.00
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	MF_CF	Fecal Coliform, Membrane Filter	320	CFU/100mL	
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	E-COLI	E.coli (Colilert)	111	MPN	
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	TDS	Total Dissolved Solids	440	mg/L	
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	SO4	Sulfate	50.5	mg/L	1.00
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	CL	Chloride	88.6	mg/L	1.00
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	TSS	Tot. Suspended Solids	13	mg/L	2
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	SSC	Suspended Sediment Concentration	10.0	mg/L	5.0
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	HARD	Hardness as CaCO3	310	mg/l	
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	COD	COD	27	mg/L	
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	741	uS/cm	
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	TEMP_FLD	Temperature (Field) Celsius	23.50	Deg C	
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	PH_FLD	pH (Field)	8.03	S.U.	
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	DO_FLD	Dissolved Oxygen (field) mg/L	7.03	mg/l	
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	763	uS/cm	
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	\$ICP	Antimony	0.00	mg/L	0.006
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	\$ICP	Arsenic	0.0225	mg/L	0.012
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	\$ICP	Barium	0.0728	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	\$ICP	Calcium	72.6	mg/L	0.066
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	\$ICP	Chromium	0.00	mg/L	0.006
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	\$ICP	Copper	0.00	mg/L	0.006
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	\$ICP	Iron	0.269	mg/L	0.018
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	\$ICP	Lead	0.00863	mg/L	0.006
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	\$ICP	Magnesium	27.5	mg/L	0.021
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	\$ICP	Manganese	0.0305	mg/L	0.009
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	\$ICP	Nickel	0.00	mg/L	0.003
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	\$ICP	Selenium	0.0226	mg/L	0.009
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	\$ICP	Silver	0.00	mg/L	0.003
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	\$ICP	Strontium	0.433	mg/L	0.009
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	\$ICP	Thallium	0.00	mg/L	0.012
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	\$ICP	Tin	0.00	mg/L	0.006
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	\$ICP	Zinc	0.0112	mg/L	0.006
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	PB_FU	Lead by Furnace	0	ug/L	1
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	AS_FU	Arsenic by Furnace	2.1	ug/L	1.0
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	CD_FU	Cadmium by Furnace	0	ug/L	1
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	CU_FU	Copper by Furnace	3.4	ug/L	1
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	NH3	Ammonia as N	0	mg/L	0.5
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	NO3NO2	Nitrate + Nitrite	2.71	mg/L	0.5
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	TKN	Total Kjeldahl Nitrogen	0.7154	mg/L	0.5
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	NO2	Nitrite as N	0.0535	mg/l	0.005
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	NO3	Nitrate as N (calculated)	2.6565	mg/l	
AC02822	LM01	Little Miami Watershed	1	6/26/2012	08:30	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	MF_CF	Fecal Coliform, Membrane Filter	43	CFU/100mL	
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	E-COLI	E.coli (Colilert)	73	MPN	
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	TDS	Total Dissolved Solids	470	mg/L	
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	BOD	Biochemical Oxygen Demand	AE	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	SO4	Sulfate	47.2	mg/L	1.00
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	CL	Chloride	74.3	mg/L	1.00
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	TSS	Tot. Suspended Solids	10	mg/L	2
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	SSC	Suspended Sediment Concentration	12.0	mg/L	5.0
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	HARD	Hardness as CaCO3	298	mg/l	
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	COD	COD	23	mg/L	
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	711	uS/cm	
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	TEMP_FLD	Temperature (Field) Celsius	24.51	Deg C	
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	PH_FLD	pH (Field)	8.03	S.U.	
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	DO_FLD	Dissolved Oxygen (field) mg/L	7.69	mg/l	
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	718	uS/cm	
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	\$ICP	Aluminum	0.00	mg/L	0.348
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	\$ICP	Antimony	0.00	mg/L	0.006
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	\$ICP	Arsenic	0.0173	mg/L	0.012
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	\$ICP	Barium	0.0699	mg/L	0.003
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	\$ICP	Calcium	68.7	mg/L	0.066
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	\$ICP	Chromium	0.00	mg/L	0.006
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	\$ICP	Copper	0.00	mg/L	0.006
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	\$ICP	Iron	0.258	mg/L	0.018
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	\$ICP	Lead	0.00	mg/L	0.006
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	\$ICP	Magnesium	26.6	mg/L	0.021
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	\$ICP	Manganese	0.0329	mg/L	0.009
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	\$ICP	Nickel	0.00	mg/L	0.003
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	\$ICP	Selenium	0.0191	mg/L	0.009
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	\$ICP	Silver	0.00	mg/L	0.003
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	\$ICP	Strontium	0.416	mg/L	0.009
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	\$ICP	Thallium	0.00	mg/L	0.012
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	\$ICP	Tin	0.00	mg/L	0.006
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	\$ICP	Zinc	0.0132	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	PB_FU	Lead by Furnace	0	ug/L	1
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	AS_FU	Arsenic by Furnace	2.2	ug/L	1.0
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	CD_FU	Cadmium by Furnace	0	ug/L	1
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	CU_FU	Copper by Furnace	2.5	ug/L	1
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	NH3	Ammonia as N	0	mg/L	0.5
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	NO3NO2	Nitrate + Nitrite	2.37	mg/L	0.5
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	TKN	Total Kjeldahl Nitrogen	0.7097	mg/L	0.5
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	NO2	Nitrite as N	0.0287	mg/l	0.005
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	NO3	Nitrate as N (calculated)	2.3413	mg/l	
AC02823	LM03	Little Miami Watershed	3	6/26/2012	09:15	CHLOROPHYLL	Chlorophyll	7.48	mg/m3	1.00
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	MF_CF	Fecal Coliform, Membrane Filter	50	CFU/100mL	
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	E-COLI	E.coli (Colilert)	55	MPN	
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	TDS	Total Dissolved Solids	510	mg/L	
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	SO4	Sulfate	49.2	mg/L	1.00
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	CL	Chloride	70.6	mg/L	1.00
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	TSS	Tot. Suspended Solids	17	mg/L	2
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	SSC	Suspended Sediment Concentration	17.0	mg/L	5.0
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	HARD	Hardness as CaCO3	300	mg/l	
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	COD	COD	15	mg/L	
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	707	uS/cm	
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	TEMP_FLD	Temperature (Field) Celsius	24.72	Deg C	
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	PH_FLD	pH (Field)	8.11	S.U.	
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	DO_FLD	Dissolved Oxygen (field) mg/L	7.28	mg/l	
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	711	uS/cm	
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	\$ICP	Antimony	0.00	mg/L	0.006
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	\$ICP	Arsenic	0.00	mg/L	0.012
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	\$ICP	Barium	0.0740	mg/L	0.003
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	\$ICP	Calcium	71.1	mg/L	0.066

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	\$ICP	Chromium	0.00	mg/L	0.006
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	\$ICP	Copper	0.00	mg/L	0.006
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	\$ICP	Iron	0.400	mg/L	0.018
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	\$ICP	Lead	0.00800	mg/L	0.006
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	\$ICP	Magnesium	27.9	mg/L	0.021
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	\$ICP	Manganese	0.0415	mg/L	0.009
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	\$ICP	Nickel	0.00	mg/L	0.003
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	\$ICP	Selenium	0.0288	mg/L	0.009
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	\$ICP	Silver	0.00	mg/L	0.003
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	\$ICP	Strontium	0.440	mg/L	0.009
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	\$ICP	Thallium	0.0522	mg/L	0.012
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	\$ICP	Tin	0.00	mg/L	0.006
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	\$ICP	Zinc	0.00	mg/L	0.006
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	PB_FU	Lead by Furnace	0	ug/L	1
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	AS_FU	Arsenic by Furnace	2.2	ug/L	1.0
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	CD_FU	Cadmium by Furnace	0	ug/L	1
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	CU_FU	Copper by Furnace	2.6	ug/L	1
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	NH3	Ammonia as N	0	mg/L	0.5
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	NO3NO2	Nitrate + Nitrite	2.33	mg/L	0.5
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	TKN	Total Kjeldahl Nitrogen	0.6711	mg/L	0.5
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	NO2	Nitrite as N	0.0265	mg/l	0.005
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	NO3	Nitrate as N (calculated)	2.3035	mg/l	
AC02824	LM04	Little Miami Watershed	4	6/26/2012	09:40	CHLOROPHYLL	Chlorophyll	8.54	mg/m3	1.00
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	MF_CF	Fecal Coliform, Membrane Filter	57	CFU/100mL	
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	E-COLI	E.coli (Colilert)	49	MPN	
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	TDS	Total Dissolved Solids	430	mg/L	
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	SO4	Sulfate	55.5	mg/L	1.00
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	CL	Chloride	89.6	mg/L	1.00
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	TSS	Tot. Suspended Solids	3	mg/L	2



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	HARD	Hardness as CaCO3	284	mg/l	
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	COD	COD	22	mg/L	
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	660	uS/cm	
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	TEMP_FLD	Temperature (Field) Celsius	21.38	Deg C	
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	PH_FLD	pH (Field)	7.70	S.U.	
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	DO_FLD	Dissolved Oxygen (field) mg/L	5.65	mg/l	
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	709	uS/cm	
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	\$ICP	Aluminum	0.00	mg/L	0.348
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	\$ICP	Antimony	0.00	mg/L	0.006
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	\$ICP	Arsenic	0.0275	mg/L	0.012
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	\$ICP	Barium	0.0431	mg/L	0.003
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	\$ICP	Calcium	72.1	mg/L	0.066
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	\$ICP	Chromium	0.00	mg/L	0.006
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	\$ICP	Copper	0.00	mg/L	0.006
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	\$ICP	Iron	0.136	mg/L	0.018
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	\$ICP	Lead	0.0104	mg/L	0.006
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	\$ICP	Magnesium	16.5	mg/L	0.021
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	\$ICP	Manganese	0.0554	mg/L	0.009
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	\$ICP	Nickel	0.00	mg/L	0.003
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	\$ICP	Selenium	0.0151	mg/L	0.009
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	\$ICP	Silver	0.00	mg/L	0.003
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	\$ICP	Strontium	0.308	mg/L	0.009
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	\$ICP	Thallium	0.0298	mg/L	0.012
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	\$ICP	Tin	0.00	mg/L	0.006
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	\$ICP	Zinc	0.00	mg/L	0.006
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	PB_FU	Lead by Furnace	0	ug/L	1
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	AS_FU	Arsenic by Furnace	1.6	ug/L	1.0
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	CD_FU	Cadmium by Furnace	0	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	CU_FU	Copper by Furnace	2.6	ug/L	1
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	NH3	Ammonia as N	0	mg/L	0.5
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	TKN	Total Kjeldahl Nitrogen	0.5769	mg/L	0.5
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	NO2	Nitrite as N	0.0082	mg/l	0.005
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	NO3	Nitrate as N (calculated)	AW	mg/l	
AC02825	LM52	Little Miami Watershed	52	6/26/2012	10:15	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	MF_CF	Fecal Coliform, Membrane Filter	79	CFU/100mL	
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	E-COLI	E.coli (Colilert)	54	MPN	
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	TDS	Total Dissolved Solids	380	mg/L	
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	SO4	Sulfate	49.2	mg/L	1.00
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	CL	Chloride	93.1	mg/L	1.00
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	TSS	Tot. Suspended Solids	4	mg/L	2
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	HARD	Hardness as CaCO3	282	mg/l	
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	COD	COD	17	mg/L	
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	673	uS/cm	
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	TEMP_FLD	Temperature (Field) Celsius	21.82	Deg C	
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	PH_FLD	pH (Field)	7.63	S.U.	
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	DO_FLD	Dissolved Oxygen (field) mg/L	5.87	mg/l	
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	716	uS/cm	
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	\$ICP	Aluminum	0.00	mg/L	0.348
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	\$ICP	Antimony	0.00	mg/L	0.006
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	\$ICP	Arsenic	0.0195	mg/L	0.012
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	\$ICP	Barium	0.0403	mg/L	0.003
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	\$ICP	Beryllium	0.00	mg/L	0.009
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	\$ICP	Cadmium	0.00	mg/L	0.012
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	\$ICP	Calcium	71.5	mg/L	0.066
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	\$ICP	Chromium	0.00	mg/L	0.006
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	\$ICP	Cobalt	0.00	mg/L	0.006
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	\$ICP	Copper	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	\$ICP	Iron	0.0451	mg/L	0.018
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	\$ICP	Lead	0.00	mg/L	0.006
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	\$ICP	Magnesium	16.0	mg/L	0.021
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	\$ICP	Manganese	0.0391	mg/L	0.009
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	\$ICP	Nickel	0.00	mg/L	0.003
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	\$ICP	Selenium	0.0299	mg/L	0.009
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	\$ICP	Silver	0.00	mg/L	0.003
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	\$ICP	Strontium	0.287	mg/L	0.009
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	\$ICP	Thallium	0.0177	mg/L	0.012
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	\$ICP	Tin	0.00	mg/L	0.006
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	\$ICP	Vanadium	0.00	mg/L	0.018
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	\$ICP	Zinc	0.00	mg/L	0.006
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	PB_FU	Lead by Furnace	0	ug/L	1
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	AS_FU	Arsenic by Furnace	1.5	ug/L	1.0
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	CD_FU	Cadmium by Furnace	0	ug/L	1
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	CU_FU	Copper by Furnace	2.3	ug/L	1
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	NH3	Ammonia as N	0	mg/L	0.5
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	TKN	Total Kjeldahl Nitrogen	0.5371	mg/L	0.5
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	NO2	Nitrite as N	0.0066	mg/l	0.005
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	NO3	Nitrate as N (calculated)	AW	mg/l	
AC02826	LM51	Little Miami Watershed	51	6/26/2012	10:35	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	107	CFU/100mL	
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	E-COLI	E.coli (Colilert)	81	MPN	
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	TDS	Total Dissolved Solids	440	mg/L	
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	SO4	Sulfate	52.5	mg/L	1.00
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	CL	Chloride	96.5	mg/L	1.00
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	TSS	Tot. Suspended Solids	10	mg/L	2
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	SSC	Suspended Sediment Concentration	7.0	mg/L	5.0
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	HARD	Hardness as CaCO3	266	mg/l	
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	COD	COD	16	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	628	uS/cm	
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	19.25	Deg C	
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	PH_FLD	pH (Field)	7.64	S.U.	
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	5.53	mg/l	
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	705	uS/cm	
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	\$ICP	Antimony	0.00	mg/L	0.006
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	\$ICP	Arsenic	0.0261	mg/L	0.012
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	\$ICP	Barium	0.0333	mg/L	0.003
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	\$ICP	Calcium	63.8	mg/L	0.066
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	\$ICP	Chromium	0.00	mg/L	0.006
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	\$ICP	Copper	0.00	mg/L	0.006
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	\$ICP	Iron	0.499	mg/L	0.018
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	\$ICP	Lead	0.00791	mg/L	0.006
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	\$ICP	Magnesium	13.1	mg/L	0.021
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	\$ICP	Manganese	0.0817	mg/L	0.009
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	\$ICP	Nickel	0.00	mg/L	0.003
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	\$ICP	Selenium	0.0252	mg/L	0.009
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	\$ICP	Silver	0.00	mg/L	0.003
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	\$ICP	Strontium	0.315	mg/L	0.009
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	\$ICP	Thallium	0.00	mg/L	0.012
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	\$ICP	Tin	0.00	mg/L	0.006
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	\$ICP	Zinc	0.00	mg/L	0.006
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	PB_FU	Lead by Furnace	0	ug/L	1
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	AS_FU	Arsenic by Furnace	1.6	ug/L	1.0
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	CD_FU	Cadmium by Furnace	0	ug/L	1
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	CU_FU	Copper by Furnace	2.9	ug/L	1
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	TKN	Total Kjeldahl Nitrogen	0.5752	mg/L	0.5
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	NO2	Nitrite as N	0.0070	mg/l	0.005
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC02827	LM50	Little Miami Watershed	50	6/26/2012	11:00	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	MF_CF	Fecal Coliform, Membrane Filter	64	CFU/100mL	
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	E-COLI	E.coli (Colilert)	50	MPN	
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	TDS	Total Dissolved Solids	410	mg/L	
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	SO4	Sulfate	54.8	mg/L	1.00
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	CL	Chloride	93.2	mg/L	1.00
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	TSS	Tot. Suspended Solids	7	mg/L	2
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	HARD	Hardness as CaCO3	280	mg/l	
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	COD	COD	14	mg/L	
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	670	uS/cm	
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	TEMP_FLD	Temperature (Field) Celsius	17.84	Deg C	
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	PH_FLD	pH (Field)	7.94	S.U.	
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	DO_FLD	Dissolved Oxygen (field) mg/L	8.20	mg/l	
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	CONDUCTIVITY	Specific Conductivity (uS/cm)	776	uS/cm	
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	\$ICP	Aluminum	0.00	mg/L	0.348
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	\$ICP	Antimony	0.00720	mg/L	0.006
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	\$ICP	Arsenic	0.0325	mg/L	0.012
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	\$ICP	Barium	0.0350	mg/L	0.003
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	\$ICP	Beryllium	0.00	mg/L	0.009
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	\$ICP	Cadmium	0.00	mg/L	0.012
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	\$ICP	Calcium	81.4	mg/L	0.066
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	\$ICP	Chromium	0.00	mg/L	0.006
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	\$ICP	Cobalt	0.00	mg/L	0.006
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	\$ICP	Copper	0.00	mg/L	0.006
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	\$ICP	Iron	0.169	mg/L	0.018
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	\$ICP	Lead	0.00681	mg/L	0.006
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	\$ICP	Magnesium	15.9	mg/L	0.021

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	\$ICP	Manganese	0.0201	mg/L	0.009
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	\$ICP	Nickel	0.00	mg/L	0.003
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	\$ICP	Selenium	0.0220	mg/L	0.009
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	\$ICP	Silver	0.00	mg/L	0.003
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	\$ICP	Strontium	0.376	mg/L	0.009
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	\$ICP	Thallium	0.0126	mg/L	0.012
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	\$ICP	Tin	0.00	mg/L	0.006
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	\$ICP	Vanadium	0.00	mg/L	0.018
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	\$ICP	Zinc	0.00	mg/L	0.006
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	PB_FU	Lead by Furnace	0	ug/L	1
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	AS_FU	Arsenic by Furnace	2.1	ug/L	1.0
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	CD_FU	Cadmium by Furnace	0	ug/L	1
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	CU_FU	Copper by Furnace	2.9	ug/L	1
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	NH3	Ammonia as N	0	mg/L	0.5
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	TKN	Total Kjeldahl Nitrogen	0.6143	mg/L	0.5
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	NO2	Nitrite as N	0.0061	mg/l	0.005
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	NO3	Nitrate as N (calculated)	AW	mg/l	
AC02828	LM49	Little Miami Watershed	49	6/26/2012	11:25	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	MF_CF	Fecal Coliform, Membrane Filter	79	CFU/100mL	
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	E-COLI	E.coli (Colilert)	93	MPN	
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	TDS	Total Dissolved Solids	180	mg/L	
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	SO4	Sulfate	24.3	mg/L	1.00
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	CL	Chloride	19.1	mg/L	1.00
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	TSS	Tot. Suspended Solids	10	mg/L	2
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	SSC	Suspended Sediment Concentration	10.0	mg/L	5.0
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	HARD	Hardness as CaCO3	144	mg/l	
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	COD	COD	32	mg/L	
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	306	uS/cm	
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	TEMP_FLD	Temperature (Field) Celsius	22.01	Deg C	
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	PH_FLD	pH (Field)	7.41	S.U.	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	DO_FLD	Dissolved Oxygen (field) mg/L	6.40	mg/l	
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	324	uS/cm	
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	\$ICP	Aluminum	0.00	mg/L	0.348
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	\$ICP	Antimony	0.00	mg/L	0.006
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	\$ICP	Arsenic	0.0172	mg/L	0.012
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	\$ICP	Barium	0.0267	mg/L	0.003
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	\$ICP	Calcium	40.6	mg/L	0.066
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	\$ICP	Chromium	0.00	mg/L	0.006
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	\$ICP	Copper	0.00	mg/L	0.006
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	\$ICP	Iron	0.337	mg/L	0.018
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	\$ICP	Lead	0.00	mg/L	0.006
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	\$ICP	Magnesium	9.03	mg/L	0.021
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	\$ICP	Manganese	0.0567	mg/L	0.009
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	\$ICP	Nickel	0.00	mg/L	0.003
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	\$ICP	Selenium	0.00	mg/L	0.009
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	\$ICP	Silver	0.00	mg/L	0.003
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	\$ICP	Strontium	0.121	mg/L	0.009
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	\$ICP	Thallium	0.00	mg/L	0.012
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	\$ICP	Tin	0.00	mg/L	0.006
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	\$ICP	Zinc	0.00	mg/L	0.006
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	PB_FU	Lead by Furnace	0	ug/L	1
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	AS_FU	Arsenic by Furnace	1.8	ug/L	1.0
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	CD_FU	Cadmium by Furnace	0	ug/L	1
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	CU_FU	Copper by Furnace	2.3	ug/L	1
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	NH3	Ammonia as N	0	mg/L	0.5
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	NO3NO2	Nitrate + Nitrite	1.28	mg/L	0.5
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	TKN	Total Kjeldahl Nitrogen	0.9572	mg/L	0.5
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	NO2	Nitrite as N	0.0095	mg/l	0.005

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	NO3	Nitrate as N (calculated)	1.2705	mg/l	
AC02895	LM31	Little Miami Watershed	31	6/27/2012	08:20	CHLOROPHYLL	Chlorophyll	5.34	mg/m3	1.00
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	MF_CF	Fecal Coliform, Membrane Filter	86	CFU/100mL	
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	E-COLI	E.coli (Colilert)	54	MPN	
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	TDS	Total Dissolved Solids	170	mg/L	
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	SO4	Sulfate	27.0	mg/L	1.00
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	CL	Chloride	21.8	mg/L	1.00
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	TSS	Tot. Suspended Solids	8	mg/L	2
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	SSC	Suspended Sediment Concentration	9.0	mg/L	5.0
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	HARD	Hardness as CaCO3	132	mg/l	
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	COD	COD	33	mg/L	
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	302	uS/cm	
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	TEMP_FLD	Temperature (Field) Celsius	22.36	Deg C	
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	PH_FLD	pH (Field)	7.45	S.U.	
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	DO_FLD	Dissolved Oxygen (field) mg/L	6.91	mg/l	
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	318	uS/cm	
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	\$ICP	Antimony	0.00	mg/L	0.006
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	\$ICP	Arsenic	0.00	mg/L	0.012
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	\$ICP	Barium	0.0250	mg/L	0.003
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	\$ICP	Calcium	37.0	mg/L	0.066
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	\$ICP	Chromium	0.00	mg/L	0.006
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	\$ICP	Copper	0.00	mg/L	0.006
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	\$ICP	Iron	0.302	mg/L	0.018
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	\$ICP	Lead	0.00	mg/L	0.006
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	\$ICP	Magnesium	8.49	mg/L	0.021
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	\$ICP	Manganese	0.0523	mg/L	0.009
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	\$ICP	Nickel	0.00	mg/L	0.003
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	\$ICP	Selenium	0.0294	mg/L	0.009



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	\$ICP	Silver	0.00	mg/L	0.003
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	\$ICP	Strontium	0.113	mg/L	0.009
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	\$ICP	Thallium	0.0127	mg/L	0.012
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	\$ICP	Tin	0.00	mg/L	0.006
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	\$ICP	Zinc	0.00794	mg/L	0.006
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	PB_FU	Lead by Furnace	0	ug/L	1
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	AS_FU	Arsenic by Furnace	1.9	ug/L	1.0
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	CD_FU	Cadmium by Furnace	0	ug/L	1
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	CU_FU	Copper by Furnace	3.8	ug/L	1
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	NH3	Ammonia as N	0	mg/L	0.5
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	NO3NO2	Nitrate + Nitrite	2.44	mg/L	0.5
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	TKN	Total Kjeldahl Nitrogen	1.040	mg/L	0.5
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	NO2	Nitrite as N	0.0185	mg/l	0.005
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	NO3	Nitrate as N (calculated)	2.4215	mg/l	
AC02896	LM30	Little Miami Watershed	30	6/27/2012	08:50	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	MF_CF	Fecal Coliform, Membrane Filter	64	CFU/100mL	
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	E-COLI	E.coli (Colilert)	78	MPN	
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	TDS	Total Dissolved Solids	160	mg/L	
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	SO4	Sulfate	28.8	mg/L	1.00
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	CL	Chloride	24.9	mg/L	1.00
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	TSS	Tot. Suspended Solids	10	mg/L	2
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	SSC	Suspended Sediment Concentration	7.0	mg/L	5.0
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	HARD	Hardness as CaCO3	134	mg/l	
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	COD	COD	27	mg/L	
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	320	uS/cm	
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	TEMP_FLD	Temperature (Field) Celsius	21.80	Deg C	
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	PH_FLD	pH (Field)	7.41	S.U.	
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	DO_FLD	Dissolved Oxygen (field) mg/L	5.69	mg/l	
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	340	uS/cm	
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	\$ICP	Aluminum	0.00	mg/L	0.348

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	\$ICP	Antimony	0.00	mg/L	0.006
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	\$ICP	Arsenic	0.0163	mg/L	0.012
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	\$ICP	Barium	0.0246	mg/L	0.003
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	\$ICP	Calcium	38.4	mg/L	0.066
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	\$ICP	Chromium	0.00	mg/L	0.006
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	\$ICP	Copper	0.00	mg/L	0.006
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	\$ICP	Iron	0.395	mg/L	0.018
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	\$ICP	Lead	0.00	mg/L	0.006
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	\$ICP	Magnesium	8.68	mg/L	0.021
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	\$ICP	Manganese	0.0405	mg/L	0.009
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	\$ICP	Nickel	0.00	mg/L	0.003
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	\$ICP	Selenium	0.0211	mg/L	0.009
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	\$ICP	Silver	0.00	mg/L	0.003
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	\$ICP	Strontium	0.120	mg/L	0.009
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	\$ICP	Thallium	0.00	mg/L	0.012
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	\$ICP	Tin	0.00	mg/L	0.006
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	\$ICP	Zinc	0.00723	mg/L	0.006
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	PB_FU	Lead by Furnace	0	ug/L	1
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	AS_FU	Arsenic by Furnace	1.9	ug/L	1.0
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	CD_FU	Cadmium by Furnace	0	ug/L	1
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	CU_FU	Copper by Furnace	3.2	ug/L	1
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	NH3	Ammonia as N	0	mg/L	0.5
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	NO3NO2	Nitrate + Nitrite	3.08	mg/L	0.5
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	TKN	Total Kjeldahl Nitrogen	1.191	mg/L	0.5
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	NO2	Nitrite as N	0.0232	mg/l	0.005
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	NO3	Nitrate as N (calculated)	3.0568	mg/l	
AC02897	LM29	Little Miami Watershed	29	6/27/2012	09:15	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	MF_CF	Fecal Coliform, Membrane Filter	150	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	E-COLI	E.coli (Colilert)	157	MPN	
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	TDS	Total Dissolved Solids	210	mg/L	
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	SO4	Sulfate	23.2	mg/L	1.00
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	CL	Chloride	15.6	mg/L	1.00
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	TSS	Tot. Suspended Solids	10	mg/L	2
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	SSC	Suspended Sediment Concentration	8.0	mg/L	5.0
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	HARD	Hardness as CaCO3	120	mg/l	
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	COD	COD	41	mg/L	
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	255	uS/cm	
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	TEMP_FLD	Temperature (Field) Celsius	21.53	Deg C	
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	PH_FLD	pH (Field)	7.60	S.U.	
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	DO_FLD	Dissolved Oxygen (field) mg/L	6.72	mg/l	
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	273	uS/cm	
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	\$ICP	Aluminum	0.00	mg/L	0.348
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	\$ICP	Antimony	0.00	mg/L	0.006
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	\$ICP	Arsenic	0.0270	mg/L	0.012
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	\$ICP	Barium	0.0241	mg/L	0.003
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	\$ICP	Calcium	33.8	mg/L	0.066
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	\$ICP	Chromium	0.00	mg/L	0.006
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	\$ICP	Copper	0.00	mg/L	0.006
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	\$ICP	Iron	0.227	mg/L	0.018
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	\$ICP	Lead	0.00	mg/L	0.006
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	\$ICP	Magnesium	7.96	mg/L	0.021
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	\$ICP	Manganese	0.0350	mg/L	0.009
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	\$ICP	Nickel	0.00	mg/L	0.003
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	\$ICP	Selenium	0.0221	mg/L	0.009
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	\$ICP	Silver	0.00	mg/L	0.003
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	\$ICP	Strontium	0.0965	mg/L	0.009
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	\$ICP	Thallium	0.00	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	\$ICP	Tin	0.00	mg/L	0.006
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	\$ICP	Zinc	0.00	mg/L	0.006
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	PB_FU	Lead by Furnace	0	ug/L	1
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	AS_FU	Arsenic by Furnace	1.8	ug/L	1.0
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	CD_FU	Cadmium by Furnace	0	ug/L	1
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	CU_FU	Copper by Furnace	2.0	ug/L	1
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	NH3	Ammonia as N	0	mg/L	0.5
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	NO3NO2	Nitrate + Nitrite	0.769	mg/L	0.5
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	TKN	Total Kjeldahl Nitrogen	0.9675	mg/L	0.5
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	NO2	Nitrite as N	0.0188	mg/l	0.005
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	NO3	Nitrate as N (calculated)	0.7502	mg/l	
AC02898	LM28	Little Miami Watershed	28	6/27/2012	09:45	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	MF_CF	Fecal Coliform, Membrane Filter	50	CFU/100mL	
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	E-COLI	E.coli (Colilert)	50	MPN	
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	TDS	Total Dissolved Solids	240	mg/L	
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	SO4	Sulfate	26.0	mg/L	1.00
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	CL	Chloride	15.3	mg/L	1.00
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	TSS	Tot. Suspended Solids	6	mg/L	2
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	SSC	Suspended Sediment Concentration	5.0	mg/L	5.0
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	HARD	Hardness as CaCO3	116	mg/l	
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	COD	COD	34	mg/L	
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	254	uS/cm	
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	TEMP_FLD	Temperature (Field) Celsius	21.45	Deg C	
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	PH_FLD	pH (Field)	7.70	S.U.	
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	DO_FLD	Dissolved Oxygen (field) mg/L	7.00	mg/l	
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	CONDUCTIVITY	Specific Conductivity (uS/cm)	273	uS/cm	
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	\$ICP	Aluminum	0.00	mg/L	0.348
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	\$ICP	Antimony	0.00	mg/L	0.006
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	\$ICP	Arsenic	0.0175	mg/L	0.012
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	\$ICP	Barium	0.0247	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	\$ICP	Beryllium	0.00	mg/L	0.009
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	\$ICP	Cadmium	0.00	mg/L	0.012
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	\$ICP	Calcium	33.6	mg/L	0.066
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	\$ICP	Chromium	0.00	mg/L	0.006
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	\$ICP	Cobalt	0.00	mg/L	0.006
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	\$ICP	Copper	0.00	mg/L	0.006
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	\$ICP	Iron	0.240	mg/L	0.018
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	\$ICP	Lead	0.00	mg/L	0.006
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	\$ICP	Magnesium	7.97	mg/L	0.021
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	\$ICP	Manganese	0.0369	mg/L	0.009
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	\$ICP	Nickel	0.00	mg/L	0.003
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	\$ICP	Selenium	0.00	mg/L	0.009
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	\$ICP	Silver	0.00	mg/L	0.003
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	\$ICP	Strontium	0.0946	mg/L	0.009
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	\$ICP	Thallium	0.00	mg/L	0.012
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	\$ICP	Tin	0.00	mg/L	0.006
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	\$ICP	Vanadium	0.00	mg/L	0.018
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	\$ICP	Zinc	0.00	mg/L	0.006
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	PB_FU	Lead by Furnace	0	ug/L	1
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	AS_FU	Arsenic by Furnace	1.7	ug/L	1.0
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	CD_FU	Cadmium by Furnace	0	ug/L	1
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	CU_FU	Copper by Furnace	2.4	ug/L	1
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	NH3	Ammonia as N	0	mg/L	0.5
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	NO3NO2	Nitrate + Nitrite	0.812	mg/L	0.5
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	TKN	Total Kjeldahl Nitrogen	1.001	mg/L	0.5
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	NO2	Nitrite as N	0.0162	mg/l	0.005
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	NO3	Nitrate as N (calculated)	0.7958	mg/l	
AC02899	LM27	Little Miami Watershed	27	6/27/2012	10:05	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	MF_CF	Fecal Coliform, Membrane Filter	64	CFU/100mL	
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	E-COLI	E.coli (Colilert)	53	MPN	
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	TDS	Total Dissolved Solids	180	mg/L	
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	BOD	Biochemical Oxygen Demand	2	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	SO4	Sulfate	30.5	mg/L	1.00
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	CL	Chloride	15.1	mg/L	1.00
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	TSS	Tot. Suspended Solids	8	mg/L	2
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	SSC	Suspended Sediment Concentration	8.0	mg/L	5.0
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	HARD	Hardness as CaCO3	122	mg/l	
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	COD	COD	28	mg/L	
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	250	uS/cm	
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	TEMP_FLD	Temperature (Field) Celsius	21.29	Deg C	
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	PH_FLD	pH (Field)	7.62	S.U.	
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	DO_FLD	Dissolved Oxygen (field) mg/L	7.51	mg/l	
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	CONDUCTIVITY	Specific Conductivity (uS/cm)	269	uS/cm	
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	\$ICP	Aluminum	0.00	mg/L	0.348
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	\$ICP	Antimony	0.00	mg/L	0.006
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	\$ICP	Arsenic	0.0188	mg/L	0.012
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	\$ICP	Barium	0.0259	mg/L	0.003
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	\$ICP	Beryllium	0.00	mg/L	0.009
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	\$ICP	Cadmium	0.00	mg/L	0.012
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	\$ICP	Calcium	32.6	mg/L	0.066
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	\$ICP	Chromium	0.00	mg/L	0.006
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	\$ICP	Cobalt	0.00	mg/L	0.006
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	\$ICP	Copper	0.00	mg/L	0.006
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	\$ICP	Iron	0.298	mg/L	0.018
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	\$ICP	Lead	0.00	mg/L	0.006
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	\$ICP	Magnesium	7.81	mg/L	0.021
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	\$ICP	Manganese	0.0359	mg/L	0.009
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	\$ICP	Nickel	0.00	mg/L	0.003
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	\$ICP	Selenium	0.0204	mg/L	0.009
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	\$ICP	Silver	0.00	mg/L	0.003
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	\$ICP	Strontium	0.0930	mg/L	0.009
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	\$ICP	Thallium	0.00	mg/L	0.012
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	\$ICP	Tin	0.00	mg/L	0.006
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	\$ICP	Vanadium	0.00	mg/L	0.018
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	\$ICP	Zinc	0.0566	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	PB_FU	Lead by Furnace	2.8	ug/L	1
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	AS_FU	Arsenic by Furnace	1.9	ug/L	1.0
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	CD_FU	Cadmium by Furnace	0	ug/L	1
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	CU_FU	Copper by Furnace	6.8	ug/L	1
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	NH3	Ammonia as N	0	mg/L	0.5
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	NO3NO2	Nitrate + Nitrite	2.10	mg/L	0.5
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	TKN	Total Kjeldahl Nitrogen	0.9491	mg/L	0.5
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	NO2	Nitrite as N	0.0230	mg/l	0.005
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	NO3	Nitrate as N (calculated)	2.0770	mg/l	
AC02900	LM26	Little Miami Watershed	26	6/27/2012	10:25	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	MF_CF	Fecal Coliform, Membrane Filter	36	CFU/100mL	
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	E-COLI	E.coli (Colilert)	10	MPN	
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	TDS	Total Dissolved Solids	250	mg/L	
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	SO4	Sulfate	21.5	mg/L	1.00
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	CL	Chloride	14.1	mg/L	1.00
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	TSS	Tot. Suspended Solids	6	mg/L	2
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	HARD	Hardness as CaCO3	110	mg/l	
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	COD	COD	38	mg/L	
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	215	uS/cm	
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	TEMP_FLD	Temperature (Field) Celsius	19.50	Deg C	
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	PH_FLD	pH (Field)	7.44	S.U.	
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	DO_FLD	Dissolved Oxygen (field) mg/L	8.00	mg/l	
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	240	uS/cm	
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	\$ICP	Antimony	0.00	mg/L	0.006
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	\$ICP	Arsenic	0.0141	mg/L	0.012
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	\$ICP	Barium	0.0261	mg/L	0.003
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	\$ICP	Calcium	29.6	mg/L	0.066

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	\$ICP	Chromium	0.00	mg/L	0.006
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	\$ICP	Copper	0.00	mg/L	0.006
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	\$ICP	Iron	0.233	mg/L	0.018
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	\$ICP	Lead	0.00	mg/L	0.006
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	\$ICP	Magnesium	7.27	mg/L	0.021
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	\$ICP	Manganese	0.0581	mg/L	0.009
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	\$ICP	Nickel	0.00	mg/L	0.003
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	\$ICP	Selenium	0.0285	mg/L	0.009
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	\$ICP	Silver	0.00	mg/L	0.003
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	\$ICP	Strontium	0.0804	mg/L	0.009
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	\$ICP	Thallium	0.00	mg/L	0.012
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	\$ICP	Tin	0.00	mg/L	0.006
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	\$ICP	Zinc	0.00	mg/L	0.006
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	PB_FU	Lead by Furnace	0	ug/L	1
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	AS_FU	Arsenic by Furnace	1.8	ug/L	1.0
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	CD_FU	Cadmium by Furnace	0	ug/L	1
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	CU_FU	Copper by Furnace	1.7	ug/L	1
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	NH3	Ammonia as N	0	mg/L	0.5
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	NO3NO2	Nitrate + Nitrite	0.994	mg/L	0.5
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	TKN	Total Kjeldahl Nitrogen	1.057	mg/L	0.5
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	NO2	Nitrite as N	0.0508	mg/l	0.005
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	NO3	Nitrate as N (calculated)	0.9432	mg/l	
AC02901	LM25	Little Miami Watershed	25	6/27/2012	10:50	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	MF_CF	Fecal Coliform, Membrane Filter	29	CFU/100mL	
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	E-COLI	E.coli (Colilert)	179	MPN	
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	TDS	Total Dissolved Solids	270	mg/L	
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	SO4	Sulfate	28.5	mg/L	1.00
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	CL	Chloride	37.0	mg/L	1.00
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	TSS	Tot. Suspended Solids	14	mg/L	2



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	SSC	Suspended Sediment Concentration	6.0	mg/L	5.0
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	HARD	Hardness as CaCO3	232	mg/l	
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	COD	COD	55	mg/L	
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	483	uS/cm	
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	TEMP_FLD	Temperature (Field) Celsius	20.79	Deg C	
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	PH_FLD	pH (Field)	7.72	S.U.	
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	DO_FLD	Dissolved Oxygen (field) mg/L	5.87	mg/l	
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	526	uS/cm	
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	\$ICP	Aluminum	0.00	mg/L	0.348
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	\$ICP	Antimony	0.00	mg/L	0.006
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	\$ICP	Arsenic	0.0289	mg/L	0.012
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	\$ICP	Barium	0.0593	mg/L	0.003
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	\$ICP	Calcium	60.3	mg/L	0.066
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	\$ICP	Chromium	0.00	mg/L	0.006
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	\$ICP	Copper	0.00	mg/L	0.006
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	\$ICP	Iron	0.126	mg/L	0.018
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	\$ICP	Lead	0.00831	mg/L	0.006
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	\$ICP	Magnesium	21.6	mg/L	0.021
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	\$ICP	Manganese	0.0502	mg/L	0.009
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	\$ICP	Nickel	0.00	mg/L	0.003
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	\$ICP	Selenium	0.0235	mg/L	0.009
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	\$ICP	Silver	0.00	mg/L	0.003
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	\$ICP	Strontium	0.227	mg/L	0.009
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	\$ICP	Thallium	0.00	mg/L	0.012
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	\$ICP	Tin	0.00	mg/L	0.006
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	\$ICP	Zinc	0.00906	mg/L	0.006
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	PB_FU	Lead by Furnace	0	ug/L	1
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	AS_FU	Arsenic by Furnace	2.2	ug/L	1.0
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	CD_FU	Cadmium by Furnace	AA	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	CU_FU	Copper by Furnace	3.0	ug/L	1
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	NH3	Ammonia as N	0	mg/L	0.5
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	TKN	Total Kjeldahl Nitrogen	1.050	mg/L	0.5
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	NO2	Nitrite as N	0.0068	mg/l	0.005
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	NO3	Nitrate as N (calculated)	AW	mg/l	
AC02952	LM37	Little Miami Watershed	37	6/28/2012	08:15	CHLOROPHYLL	Chlorophyll	9.08	mg/m3	1.00
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	MF_CF	Fecal Coliform, Membrane Filter	114	CFU/100mL	
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	E-COLI	E.coli (Colilert)	58	MPN	
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	TDS	Total Dissolved Solids	230	mg/L	
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	SO4	Sulfate	31.5	mg/L	1.00
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	CL	Chloride	31.9	mg/L	1.00
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	TSS	Tot. Suspended Solids	14	mg/L	2
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	SSC	Suspended Sediment Concentration	10.0	mg/L	5.0
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	HARD	Hardness as CaCO3	172	mg/l	
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	COD	COD	58	mg/L	
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	389	uS/cm	
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	TEMP_FLD	Temperature (Field) Celsius	22.64	Deg C	
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	PH_FLD	pH (Field)	7.46	S.U.	
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	DO_FLD	Dissolved Oxygen (field) mg/L	6.74	mg/l	
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	407	uS/cm	
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	\$ICP	Antimony	0.00	mg/L	0.006
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	\$ICP	Arsenic	0.0191	mg/L	0.012
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	\$ICP	Barium	0.0272	mg/L	0.003
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	\$ICP	Calcium	49.4	mg/L	0.066
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	\$ICP	Chromium	0.00	mg/L	0.006
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	\$ICP	Copper	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	\$ICP	Iron	0.331	mg/L	0.018
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	\$ICP	Lead	0.00854	mg/L	0.006
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	\$ICP	Magnesium	11.0	mg/L	0.021
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	\$ICP	Manganese	0.0552	mg/L	0.009
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	\$ICP	Nickel	0.00	mg/L	0.003
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	\$ICP	Selenium	0.0405	mg/L	0.009
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	\$ICP	Silver	0.00	mg/L	0.003
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	\$ICP	Strontium	0.155	mg/L	0.009
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	\$ICP	Thallium	0.00	mg/L	0.012
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	\$ICP	Tin	0.00	mg/L	0.006
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	\$ICP	Zinc	0.00987	mg/L	0.006
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	PB_FU	Lead by Furnace	0	ug/L	1
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	AS_FU	Arsenic by Furnace	1.9	ug/L	1.0
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	CU_FU	Copper by Furnace	3.4	ug/L	1
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	NH3	Ammonia as N	0	mg/L	0.5
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	NO3NO2	Nitrate + Nitrite	3.32	mg/L	0.5
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	TKN	Total Kjeldahl Nitrogen	1.135	mg/L	0.5
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	TKP	Total Kjeldahl Phosphorus	0.5279	mg/L	0.5
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	NO2	Nitrite as N	0.0171	mg/l	0.005
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	NO3	Nitrate as N (calculated)	3.3029	mg/l	
AC02953	LM32	Little Miami Watershed	32	6/28/2012	09:00	CHLOROPHYLL	Chlorophyll	5.34	mg/m3	1.00
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	MF_CF	Fecal Coliform, Membrane Filter	86	CFU/100mL	
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	E-COLI	E.coli (Colilert)	88	MPN	
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	TDS	Total Dissolved Solids	260	mg/L	
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	SO4	Sulfate	39.8	mg/L	1.00
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	CL	Chloride	40.7	mg/L	1.00
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	TSS	Tot. Suspended Solids	16	mg/L	2
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	SSC	Suspended Sediment Concentration	10.0	mg/L	5.0
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	HARD	Hardness as CaCO3	192	mg/l	
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	COD	COD	27	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	444	uS/cm	
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	TEMP_FLD	Temperature (Field) Celsius	23.12	Deg C	
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	PH_FLD	pH (Field)	7.41	S.U.	
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	DO_FLD	Dissolved Oxygen (field) mg/L	7.41	mg/l	
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	CONDUCTIVITY	Specific Conductivity (uS/cm)	461	uS/cm	
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	\$ICP	Aluminum	0.00	mg/L	0.348
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	\$ICP	Antimony	0.00	mg/L	0.006
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	\$ICP	Arsenic	0.0372	mg/L	0.012
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	\$ICP	Barium	0.0283	mg/L	0.003
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	\$ICP	Beryllium	0.00	mg/L	0.009
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	\$ICP	Cadmium	0.00	mg/L	0.012
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	\$ICP	Calcium	53.4	mg/L	0.066
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	\$ICP	Chromium	0.00	mg/L	0.006
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	\$ICP	Cobalt	0.00	mg/L	0.006
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	\$ICP	Copper	0.00	mg/L	0.006
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	\$ICP	Iron	0.388	mg/L	0.018
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	\$ICP	Lead	0.00843	mg/L	0.006
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	\$ICP	Magnesium	11.9	mg/L	0.021
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	\$ICP	Manganese	0.0713	mg/L	0.009
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	\$ICP	Nickel	0.00	mg/L	0.003
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	\$ICP	Selenium	0.0133	mg/L	0.009
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	\$ICP	Silver	0.00	mg/L	0.003
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	\$ICP	Strontium	0.173	mg/L	0.009
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	\$ICP	Thallium	0.00	mg/L	0.012
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	\$ICP	Tin	0.00	mg/L	0.006
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	\$ICP	Vanadium	0.00	mg/L	0.018
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	\$ICP	Zinc	0.0126	mg/L	0.006
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	PB_FU	Lead by Furnace	0	ug/L	1
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	AS_FU	Arsenic by Furnace	1.9	ug/L	1.0
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	CU_FU	Copper by Furnace	3.8	ug/L	1
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	NH3	Ammonia as N	0	mg/L	0.5
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	NO3NO2	Nitrate + Nitrite	3.42	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	TKN	Total Kjeldahl Nitrogen	1.162	mg/L	0.5
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	TKP	Total Kjeldahl Phosphorus	0.6259	mg/L	0.5
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	NO2	Nitrite as N	0.0174	mg/l	0.005
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	NO3	Nitrate as N (calculated)	3.4026	mg/l	
AC02954	LM34	Little Miami Watershed	34	6/28/2012	09:25	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	MF_CF	Fecal Coliform, Membrane Filter	150	CFU/100mL	
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	E-COLI	E.coli (Colilert)	120	MPN	
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	TDS	Total Dissolved Solids	270	mg/L	
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	SO4	Sulfate	42.0	mg/L	1.00
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	CL	Chloride	41.0	mg/L	1.00
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	TSS	Tot. Suspended Solids	20	mg/L	2
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	SSC	Suspended Sediment Concentration	11.0	mg/L	5.0
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	HARD	Hardness as CaCO3	188	mg/l	
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	COD	COD	31	mg/L	
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	448	uS/cm	
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	TEMP_FLD	Temperature (Field) Celsius	23.50	Deg C	
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	PH_FLD	pH (Field)	7.47	S.U.	
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	DO_FLD	Dissolved Oxygen (field) mg/L	7.50	mg/l	
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	461	uS/cm	
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	\$ICP	Aluminum	0.00	mg/L	0.348
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	\$ICP	Antimony	0.00	mg/L	0.006
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	\$ICP	Arsenic	0.0309	mg/L	0.012
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	\$ICP	Barium	0.0278	mg/L	0.003
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	\$ICP	Calcium	52.7	mg/L	0.066
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	\$ICP	Chromium	0.00	mg/L	0.006
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	\$ICP	Copper	0.00	mg/L	0.006
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	\$ICP	Iron	0.380	mg/L	0.018
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	\$ICP	Lead	0.00	mg/L	0.006
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	\$ICP	Magnesium	11.6	mg/L	0.021

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	\$ICP	Manganese	0.0756	mg/L	0.009
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	\$ICP	Nickel	0.00	mg/L	0.003
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	\$ICP	Selenium	0.0190	mg/L	0.009
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	\$ICP	Silver	0.00	mg/L	0.003
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	\$ICP	Strontium	0.171	mg/L	0.009
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	\$ICP	Thallium	0.00	mg/L	0.012
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	\$ICP	Tin	0.00	mg/L	0.006
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	\$ICP	Zinc	0.0119	mg/L	0.006
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	PB_FU	Lead by Furnace	0	ug/L	1
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	AS_FU	Arsenic by Furnace	1.9	ug/L	1.0
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	CU_FU	Copper by Furnace	3.8	ug/L	1
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	NH3	Ammonia as N	0	mg/L	0.5
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	NO3NO2	Nitrate + Nitrite	4.15	mg/L	0.5
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	TKN	Total Kjeldahl Nitrogen	1.211	mg/L	0.5
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	TKP	Total Kjeldahl Phosphorus	0.6328	mg/L	0.5
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	NO2	Nitrite as N	0.0167	mg/l	0.005
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	NO3	Nitrate as N (calculated)	4.1333	mg/l	
AC02955	LM35	Little Miami Watershed	35	6/28/2012	10:10	CHLOROPHYLL	Chlorophyll	5.34	mg/m3	1.00
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	MF_CF	Fecal Coliform, Membrane Filter	79	CFU/100mL	
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	E-COLI	E.coli (Colilert)	71	MPN	
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	TDS	Total Dissolved Solids	240	mg/L	
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	SO4	Sulfate	40.0	mg/L	1.00
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	CL	Chloride	41.1	mg/L	1.00
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	TSS	Tot. Suspended Solids	16	mg/L	2
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	SSC	Suspended Sediment Concentration	12.0	mg/L	5.0
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	HARD	Hardness as CaCO3	186	mg/l	
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	COD	COD	31	mg/L	
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	448	uS/cm	
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	TEMP_FLD	Temperature (Field) Celsius	23.56	Deg C	
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	PH_FLD	pH (Field)	7.43	S.U.	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	DO_FLD	Dissolved Oxygen (field) mg/L	6.71	mg/l	
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	461	uS/cm	
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	\$ICP	Aluminum	0.00	mg/L	0.348
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	\$ICP	Antimony	0.00	mg/L	0.006
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	\$ICP	Arsenic	0.0143	mg/L	0.012
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	\$ICP	Barium	0.0292	mg/L	0.003
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	\$ICP	Calcium	55.0	mg/L	0.066
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	\$ICP	Chromium	0.00	mg/L	0.006
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	\$ICP	Copper	0.00	mg/L	0.006
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	\$ICP	Iron	0.449	mg/L	0.018
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	\$ICP	Lead	0.00638	mg/L	0.006
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	\$ICP	Magnesium	12.2	mg/L	0.021
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	\$ICP	Manganese	0.0893	mg/L	0.009
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	\$ICP	Nickel	0.00	mg/L	0.003
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	\$ICP	Selenium	0.0258	mg/L	0.009
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	\$ICP	Silver	0.00	mg/L	0.003
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	\$ICP	Strontium	0.172	mg/L	0.009
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	\$ICP	Thallium	0.00	mg/L	0.012
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	\$ICP	Tin	0.00	mg/L	0.006
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	\$ICP	Zinc	0.0218	mg/L	0.006
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	PB_FU	Lead by Furnace	1.2	ug/L	1
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	AS_FU	Arsenic by Furnace	1.9	ug/L	1.0
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	CU_FU	Copper by Furnace	4.3	ug/L	1
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	NH3	Ammonia as N	0	mg/L	0.5
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	NO3NO2	Nitrate + Nitrite	3.80	mg/L	0.5
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	TKN	Total Kjeldahl Nitrogen	1.240	mg/L	0.5
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	TKP	Total Kjeldahl Phosphorus	0.6241	mg/L	0.5
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	NO2	Nitrite as N	0.0177	mg/l	0.005

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	NO3	Nitrate as N (calculated)	3.7823	mg/l	
AC02956	LM36	Little Miami Watershed	36	6/28/2012	10:45	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	MF_CF	Fecal Coliform, Membrane Filter	114	CFU/100mL	
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	E-COLI	E.coli (Colilert)	62	MPN	
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	TDS	Total Dissolved Solids	350	mg/L	
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	SO4	Sulfate	34.0	mg/L	1.00
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	CL	Chloride	41.1	mg/L	1.00
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	TSS	Tot. Suspended Solids	20	mg/L	2
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	SSC	Suspended Sediment Concentration	13.0	mg/L	5.0
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	HARD	Hardness as CaCO3	200	mg/l	
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	COD	COD	64	mg/L	
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	457	uS/cm	
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	TEMP_FLD	Temperature (Field) Celsius	24.11	Deg C	
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	PH_FLD	pH (Field)	7.44	S.U.	
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	DO_FLD	Dissolved Oxygen (field) mg/L	6.76	mg/l	
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	465	uS/cm	
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	\$ICP	Aluminum	0.00	mg/L	0.348
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	\$ICP	Antimony	0.00	mg/L	0.006
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	\$ICP	Arsenic	0.00	mg/L	0.012
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	\$ICP	Barium	0.0291	mg/L	0.003
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	\$ICP	Calcium	54.6	mg/L	0.066
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	\$ICP	Chromium	0.00	mg/L	0.006
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	\$ICP	Copper	0.00	mg/L	0.006
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	\$ICP	Iron	0.468	mg/L	0.018
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	\$ICP	Lead	0.00	mg/L	0.006
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	\$ICP	Magnesium	12.2	mg/L	0.021
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	\$ICP	Manganese	0.0911	mg/L	0.009
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	\$ICP	Nickel	0.00	mg/L	0.003
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	\$ICP	Selenium	0.0287	mg/L	0.009



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	\$ICP	Silver	0.00	mg/L	0.003
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	\$ICP	Strontium	0.170	mg/L	0.009
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	\$ICP	Thallium	0.0306	mg/L	0.012
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	\$ICP	Tin	0.00	mg/L	0.006
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	\$ICP	Zinc	0.0107	mg/L	0.006
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	PB_FU	Lead by Furnace	0	ug/L	1
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	AS_FU	Arsenic by Furnace	2.0	ug/L	1.0
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	CU_FU	Copper by Furnace	3.5	ug/L	1
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	NH3	Ammonia as N	0	mg/L	0.5
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	NO3NO2	Nitrate + Nitrite	3.31	mg/L	0.5
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	TKN	Total Kjeldahl Nitrogen	1.032	mg/L	0.5
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	TKP	Total Kjeldahl Phosphorus	0.6147	mg/L	0.5
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	NO2	Nitrite as N	0.0180	mg/l	0.005
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	NO3	Nitrate as N (calculated)	3.2920	mg/l	
AC02957	LM10	Little Miami Watershed	10	6/28/2012	11:10	CHLOROPHYLL	Chlorophyll	5.87	mg/m3	1.00
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	MF_CF	Fecal Coliform, Membrane Filter	57	CFU/100mL	
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	E-COLI	E.coli (Colilert)	35	MPN	
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	TDS	Total Dissolved Solids	430	mg/L	
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	SO4	Sulfate	43.5	mg/L	1.00
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	CL	Chloride	76.4	mg/L	1.00
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	TSS	Tot. Suspended Solids	16	mg/L	2
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	SSC	Suspended Sediment Concentration	9.0	mg/L	5.0
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	HARD	Hardness as CaCO3	272	mg/l	
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	COD	COD	28	mg/L	
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	698	uS/cm	
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	TEMP_FLD	Temperature (Field) Celsius	25.28	Deg C	
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	PH_FLD	pH (Field)	8.19	S.U.	
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	DO_FLD	Dissolved Oxygen (field) mg/L	9.48	mg/l	
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	694	uS/cm	
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	\$ICP	Aluminum	0.00	mg/L	0.348

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	\$ICP	Antimony	0.00	mg/L	0.006
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	\$ICP	Arsenic	0.0197	mg/L	0.012
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	\$ICP	Barium	0.0629	mg/L	0.003
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	\$ICP	Calcium	72.8	mg/L	0.066
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	\$ICP	Chromium	0.00	mg/L	0.006
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	\$ICP	Copper	0.00	mg/L	0.006
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	\$ICP	Iron	0.243	mg/L	0.018
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	\$ICP	Lead	0.00	mg/L	0.006
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	\$ICP	Magnesium	26.2	mg/L	0.021
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	\$ICP	Manganese	0.0406	mg/L	0.009
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	\$ICP	Nickel	0.00	mg/L	0.003
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	\$ICP	Selenium	0.0472	mg/L	0.009
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	\$ICP	Silver	0.00	mg/L	0.003
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	\$ICP	Strontium	0.386	mg/L	0.009
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	\$ICP	Thallium	0.0139	mg/L	0.012
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	\$ICP	Tin	0.00	mg/L	0.006
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	\$ICP	Zinc	0.00	mg/L	0.006
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	PB_FU	Lead by Furnace	0	ug/L	1
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	AS_FU	Arsenic by Furnace	2.1	ug/L	1.0
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	CU_FU	Copper by Furnace	3.2	ug/L	1
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	NO3NO2	Nitrate + Nitrite	2.24	mg/L	0.5
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	TKN	Total Kjeldahl Nitrogen	0.9743	mg/L	0.5
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	NO2	Nitrite as N	0.0260	mg/l	0.005
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	NO3	Nitrate as N (calculated)	2.2140	mg/l	
AC02958	LM11	Little Miami Watershed	11	6/28/2012	11:30	CHLOROPHYLL	Chlorophyll	11.2	mg/m3	1.00
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	MF_CF	Fecal Coliform, Membrane Filter	230	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	E-COLI	E.coli (Colilert)	276	MPN	
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	TDS	Total Dissolved Solids	440	mg/L	
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	SO4	Sulfate	44.2	mg/L	1.00
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	CL	Chloride	90.6	mg/L	1.00
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	TSS	Tot. Suspended Solids	28	mg/L	2
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	SSC	Suspended Sediment Concentration	12.0	mg/L	5.0
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	HARD	Hardness as CaCO3	240	mg/l	
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	COD	COD	54	mg/L	
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	649	uS/cm	
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	TEMP_FLD	Temperature (Field) Celsius	23.39	Deg C	
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	PH_FLD	pH (Field)	7.09	S.U.	
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	DO_FLD	Dissolved Oxygen (field) mg/L	0.82	mg/l	
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	670	uS/cm	
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	\$ICP	Aluminum	0.00	mg/L	0.348
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	\$ICP	Antimony	0.00	mg/L	0.006
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	\$ICP	Arsenic	0.0311	mg/L	0.012
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	\$ICP	Barium	0.0430	mg/L	0.003
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	\$ICP	Calcium	55.2	mg/L	0.066
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	\$ICP	Chromium	0.00	mg/L	0.006
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	\$ICP	Copper	0.00	mg/L	0.006
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	\$ICP	Iron	0.452	mg/L	0.018
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	\$ICP	Lead	0.00796	mg/L	0.006
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	\$ICP	Magnesium	17.3	mg/L	0.021
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	\$ICP	Manganese	1.49	mg/L	0.009
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	\$ICP	Nickel	0.00	mg/L	0.003
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	\$ICP	Selenium	0.0410	mg/L	0.009
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	\$ICP	Silver	0.00	mg/L	0.003
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	\$ICP	Strontium	0.254	mg/L	0.009
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	\$ICP	Thallium	0.00	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	\$ICP	Tin	0.00	mg/L	0.006
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	\$ICP	Zinc	0.00	mg/L	0.006
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	PB_FU	Lead by Furnace	0	ug/L	1
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	AS_FU	Arsenic by Furnace	5.1	ug/L	1.0
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	CU_FU	Copper by Furnace	2.5	ug/L	1
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	NH3	Ammonia as N	0	mg/L	0.5
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	TKN	Total Kjeldahl Nitrogen	1.470	mg/L	0.5
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	NO2	Nitrite as N	0.0027	mg/l	0.005
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03044	LM18	Little Miami Watershed	18	6/29/2012	08:20	CHLOROPHYLL	Chlorophyll	21.9	mg/m3	1.00
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	MF_CF	Fecal Coliform, Membrane Filter	164	CFU/100mL	
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	E-COLI	E.coli (Colilert)	93	MPN	
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	TDS	Total Dissolved Solids	480	mg/L	
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	SO4	Sulfate	48.5	mg/L	1.00
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	CL	Chloride	87.4	mg/L	1.00
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	TSS	Tot. Suspended Solids	21	mg/L	2
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	SSC	Suspended Sediment Concentration	11.0	mg/L	5.0
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	HARD	Hardness as CaCO3	290	mg/l	
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	COD	COD	37	mg/L	
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	750	uS/cm	
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	TEMP_FLD	Temperature (Field) Celsius	26.07	Deg C	
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	PH_FLD	pH (Field)	7.93	S.U.	
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	DO_FLD	Dissolved Oxygen (field) mg/L	5.25	mg/l	
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	735	uS/cm	
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	\$ICP	Antimony	0.00	mg/L	0.006
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	\$ICP	Arsenic	0.0151	mg/L	0.012
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	\$ICP	Barium	0.0671	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	\$ICP	Calcium	76.7	mg/L	0.066
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	\$ICP	Chromium	0.00	mg/L	0.006
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	\$ICP	Copper	0.00	mg/L	0.006
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	\$ICP	Iron	0.244	mg/L	0.018
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	\$ICP	Lead	0.0120	mg/L	0.006
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	\$ICP	Magnesium	27.3	mg/L	0.021
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	\$ICP	Manganese	0.0448	mg/L	0.009
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	\$ICP	Nickel	0.00	mg/L	0.003
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	\$ICP	Selenium	0.0816	mg/L	0.009
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	\$ICP	Silver	0.00	mg/L	0.003
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	\$ICP	Strontium	0.394	mg/L	0.009
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	\$ICP	Thallium	0.00	mg/L	0.012
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	\$ICP	Tin	0.00	mg/L	0.006
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	\$ICP	Zinc	0.0125	mg/L	0.006
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	PB_FU	Lead by Furnace	0	ug/L	1
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	AS_FU	Arsenic by Furnace	2.2	ug/L	1.0
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	CU_FU	Copper by Furnace	3.7	ug/L	1
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	NH3	Ammonia as N	0	mg/L	0.5
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	NO3NO2	Nitrate + Nitrite	2.25	mg/L	0.5
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	TKN	Total Kjeldahl Nitrogen	1.148	mg/L	0.5
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	NO2	Nitrite as N	0.0260	mg/l	0.005
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	NO3	Nitrate as N (calculated)	2.2240	mg/l	
AC03045	LM12	Little Miami Watershed	12	6/29/2012	08:50	CHLOROPHYLL	Chlorophyll	13.4	mg/m3	1.00
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	MF_CF	Fecal Coliform, Membrane Filter	50	CFU/100mL	
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	E-COLI	E.coli (Colilert)	38	MPN	
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	TDS	Total Dissolved Solids	400	mg/L	
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	BOD	Biochemical Oxygen Demand	2	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	SO4	Sulfate	47.5	mg/L	1.00
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	CL	Chloride	84.8	mg/L	1.00
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	TSS	Tot. Suspended Solids	26	mg/L	2
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	SSC	Suspended Sediment Concentration	10.0	mg/L	5.0
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	HARD	Hardness as CaCO3	302	mg/l	
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	COD	COD	32	mg/L	
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	741	uS/cm	
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	TEMP_FLD	Temperature (Field) Celsius	26.39	Deg C	
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	PH_FLD	pH (Field)	8.07	S.U.	
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	DO_FLD	Dissolved Oxygen (field) mg/L	7.30	mg/l	
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	CONDUCTIVITY	Specific Conductivity (uS/cm)	721	uS/cm	
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	\$ICP	Aluminum	0.00	mg/L	0.348
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	\$ICP	Antimony	0.00	mg/L	0.006
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	\$ICP	Arsenic	0.0447	mg/L	0.012
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	\$ICP	Barium	0.0657	mg/L	0.003
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	\$ICP	Beryllium	0.00	mg/L	0.009
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	\$ICP	Cadmium	0.00	mg/L	0.012
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	\$ICP	Calcium	78.1	mg/L	0.066
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	\$ICP	Chromium	0.00	mg/L	0.006
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	\$ICP	Cobalt	0.00	mg/L	0.006
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	\$ICP	Copper	0.00	mg/L	0.006
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	\$ICP	Iron	0.236	mg/L	0.018
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	\$ICP	Lead	0.00789	mg/L	0.006
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	\$ICP	Magnesium	27.5	mg/L	0.021
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	\$ICP	Manganese	0.0415	mg/L	0.009
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	\$ICP	Nickel	0.00	mg/L	0.003
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	\$ICP	Selenium	0.0164	mg/L	0.009
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	\$ICP	Silver	0.00	mg/L	0.003
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	\$ICP	Strontium	0.390	mg/L	0.009
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	\$ICP	Thallium	0.0124	mg/L	0.012
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	\$ICP	Tin	0.00	mg/L	0.006
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	\$ICP	Vanadium	0.00	mg/L	0.018
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	\$ICP	Zinc	0.00836	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	PB_FU	Lead by Furnace	0	ug/L	1
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	AS_FU	Arsenic by Furnace	2.3	ug/L	1.0
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	CU_FU	Copper by Furnace	3.3	ug/L	1
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	NH3	Ammonia as N	0	mg/L	0.5
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	NO3NO2	Nitrate + Nitrite	2.17	mg/L	0.5
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	TKN	Total Kjeldahl Nitrogen	1.106	mg/L	0.5
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	NO2	Nitrite as N	0.0258	mg/l	0.005
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	NO3	Nitrate as N (calculated)	2.1442	mg/l	
AC03046	LM13	Little Miami Watershed	13	6/29/2012	09:55	CHLOROPHYLL	Chlorophyll	15.0	mg/m3	1.00
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	MF_CF	Fecal Coliform, Membrane Filter	36	CFU/100mL	
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	E-COLI	E.coli (Colilert)	48	MPN	
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	TDS	Total Dissolved Solids	380	mg/L	
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	SO4	Sulfate	49.2	mg/L	1.00
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	CL	Chloride	79.6	mg/L	1.00
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	TSS	Tot. Suspended Solids	20	mg/L	2
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	SSC	Suspended Sediment Concentration	10.0	mg/L	5.0
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	HARD	Hardness as CaCO3	300	mg/l	
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	COD	COD	35	mg/L	
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	737	uS/cm	
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	TEMP_FLD	Temperature (Field) Celsius	26.70	Deg C	
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	PH_FLD	pH (Field)	8.07	S.U.	
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	DO_FLD	Dissolved Oxygen (field) mg/L	7.53	mg/l	
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	CONDUCTIVITY	Specific Conductivity (uS/cm)	714	uS/cm	
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	\$ICP	Aluminum	0.00	mg/L	0.348
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	\$ICP	Antimony	0.00	mg/L	0.006
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	\$ICP	Arsenic	0.0270	mg/L	0.012
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	\$ICP	Barium	0.0681	mg/L	0.003
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	\$ICP	Beryllium	0.00	mg/L	0.009
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	\$ICP	Cadmium	0.00	mg/L	0.012
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	\$ICP	Calcium	77.9	mg/L	0.066

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	\$ICP	Chromium	0.00	mg/L	0.006
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	\$ICP	Cobalt	0.00	mg/L	0.006
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	\$ICP	Copper	0.00	mg/L	0.006
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	\$ICP	Iron	0.165	mg/L	0.018
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	\$ICP	Lead	0.0108	mg/L	0.006
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	\$ICP	Magnesium	27.4	mg/L	0.021
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	\$ICP	Manganese	0.0612	mg/L	0.009
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	\$ICP	Nickel	0.00	mg/L	0.003
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	\$ICP	Selenium	0.0447	mg/L	0.009
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	\$ICP	Silver	0.00	mg/L	0.003
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	\$ICP	Strontium	0.406	mg/L	0.009
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	\$ICP	Thallium	0.00	mg/L	0.012
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	\$ICP	Tin	0.00	mg/L	0.006
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	\$ICP	Vanadium	0.00	mg/L	0.018
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	\$ICP	Zinc	0.00602	mg/L	0.006
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	PB_FU	Lead by Furnace	0	ug/L	1
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	AS_FU	Arsenic by Furnace	2.2	ug/L	1.0
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	CU_FU	Copper by Furnace	3.1	ug/L	1
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	NH3	Ammonia as N	0	mg/L	0.5
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	NO3NO2	Nitrate + Nitrite	1.96	mg/L	0.5
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	TKN	Total Kjeldahl Nitrogen	1.120	mg/L	0.5
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	NO2	Nitrite as N	0.0254	mg/l	0.005
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	NO3	Nitrate as N (calculated)	1.9346	mg/l	
AC03047	LM14	Little Miami Watershed	14	6/29/2012	10:25	CHLOROPHYLL	Chlorophyll	12.3	mg/m3	1.00
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	MF_CF	Fecal Coliform, Membrane Filter	21	CFU/100mL	
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	E-COLI	E.coli (Colilert)	51	MPN	
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	TDS	Total Dissolved Solids	380	mg/L	
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	SO4	Sulfate	42.2	mg/L	1.00
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	CL	Chloride	78.0	mg/L	1.00
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	TSS	Tot. Suspended Solids	14	mg/L	2



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	SSC	Suspended Sediment Concentration	10.0	mg/L	5.0
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	HARD	Hardness as CaCO3	290	mg/l	
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	COD	COD	33	mg/L	
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	745	uS/cm	
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	TEMP_FLD	Temperature (Field) Celsius	27.01	Deg C	
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	PH_FLD	pH (Field)	8.11	S.U.	
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	DO_FLD	Dissolved Oxygen (field) mg/L	9.13	mg/l	
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	715	uS/cm	
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	\$ICP	Antimony	0.00	mg/L	0.006
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	\$ICP	Arsenic	0.0324	mg/L	0.012
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	\$ICP	Barium	0.0634	mg/L	0.003
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	\$ICP	Calcium	79.3	mg/L	0.066
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	\$ICP	Chromium	0.00	mg/L	0.006
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	\$ICP	Copper	0.00	mg/L	0.006
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	\$ICP	Iron	0.230	mg/L	0.018
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	\$ICP	Lead	0.0108	mg/L	0.006
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	\$ICP	Magnesium	27.4	mg/L	0.021
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	\$ICP	Manganese	0.0515	mg/L	0.009
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	\$ICP	Nickel	0.00	mg/L	0.003
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	\$ICP	Selenium	0.0553	mg/L	0.009
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	\$ICP	Silver	0.00	mg/L	0.003
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	\$ICP	Strontium	0.379	mg/L	0.009
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	\$ICP	Thallium	0.00	mg/L	0.012
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	\$ICP	Tin	0.00	mg/L	0.006
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	\$ICP	Zinc	0.00	mg/L	0.006
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	PB_FU	Lead by Furnace	0	ug/L	1
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	AS_FU	Arsenic by Furnace	2.2	ug/L	1.0
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	CD_FU	Cadmium by Furnace	AA	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	CU_FU	Copper by Furnace	3.2	ug/L	1
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	NH3	Ammonia as N	0	mg/L	0.5
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	NO3NO2	Nitrate + Nitrite	1.86	mg/L	0.5
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	TKN	Total Kjeldahl Nitrogen	1.107	mg/L	0.5
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	NO2	Nitrite as N	0.0241	mg/l	0.005
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	NO3	Nitrate as N (calculated)	1.8359	mg/l	
AC03048	LM15	Little Miami Watershed	15	6/29/2012	10:50	CHLOROPHYLL	Chlorophyll	18.2	mg/m3	1.00
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	MF_CF	Fecal Coliform, Membrane Filter	21	CFU/100mL	
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	E-COLI	E.coli (Colilert)	16	MPN	
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	TDS	Total Dissolved Solids	420	mg/L	
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	SO4	Sulfate	48.2	mg/L	1.00
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	CL	Chloride	76.8	mg/L	1.00
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	TSS	Tot. Suspended Solids	10	mg/L	2
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	SSC	Suspended Sediment Concentration	13.0	mg/L	5.0
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	HARD	Hardness as CaCO3	284	mg/l	
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	COD	COD	35	mg/L	
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	746	uS/cm	
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	TEMP_FLD	Temperature (Field) Celsius	27.28	Deg C	
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	PH_FLD	pH (Field)	8.11	S.U.	
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	DO_FLD	Dissolved Oxygen (field) mg/L	8.72	mg/l	
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	CONDUCTIVITY	Specific Conductivity (uS/cm)	714	uS/cm	
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	\$ICP	Aluminum	0.00	mg/L	0.348
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	\$ICP	Antimony	0.00	mg/L	0.006
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	\$ICP	Arsenic	0.0403	mg/L	0.012
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	\$ICP	Barium	0.0630	mg/L	0.003
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	\$ICP	Beryllium	0.00	mg/L	0.009
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	\$ICP	Cadmium	0.00	mg/L	0.012
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	\$ICP	Calcium	77.5	mg/L	0.066
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	\$ICP	Chromium	0.00	mg/L	0.006
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	\$ICP	Cobalt	0.00	mg/L	0.006
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	\$ICP	Copper	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	\$ICP	Iron	0.244	mg/L	0.018
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	\$ICP	Lead	0.0124	mg/L	0.006
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	\$ICP	Magnesium	25.9	mg/L	0.021
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	\$ICP	Manganese	0.0507	mg/L	0.009
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	\$ICP	Nickel	0.00	mg/L	0.003
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	\$ICP	Selenium	0.0534	mg/L	0.009
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	\$ICP	Silver	0.00	mg/L	0.003
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	\$ICP	Strontium	0.368	mg/L	0.009
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	\$ICP	Thallium	0.00	mg/L	0.012
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	\$ICP	Tin	0.00	mg/L	0.006
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	\$ICP	Vanadium	0.00	mg/L	0.018
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	\$ICP	Zinc	0.0107	mg/L	0.006
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	PB_FU	Lead by Furnace	0	ug/L	1
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	AS_FU	Arsenic by Furnace	2.2	ug/L	1.0
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	CU_FU	Copper by Furnace	3.7	ug/L	1
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	NH3	Ammonia as N	0	mg/L	0.5
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	NO3NO2	Nitrate + Nitrite	2.00	mg/L	0.5
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	TKN	Total Kjeldahl Nitrogen	1.092	mg/L	0.5
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	NO2	Nitrite as N	0.0254	mg/l	0.005
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	NO3	Nitrate as N (calculated)	11.4746	mg/l	
AC03049	LM16	Little Miami Watershed	16	6/29/2012	11:25	CHLOROPHYLL	Chlorophyll	17.1	mg/m3	1.00
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	MF_CF	Fecal Coliform, Membrane Filter	29	CFU/100mL	
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	E-COLI	E.coli (Colilert)	41	MPN	
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	TDS	Total Dissolved Solids	400	mg/L	
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	SO4	Sulfate	53.0	mg/L	1.00
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	CL	Chloride	81.4	mg/L	1.00
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	TSS	Tot. Suspended Solids	24	mg/L	2
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	SSC	Suspended Sediment Concentration	30.0	mg/L	5.0
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	HARD	Hardness as CaCO3	312	mg/l	
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	COD	COD	34	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	745	uS/cm	
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	TEMP_FLD	Temperature (Field) Celsius	26.56	Deg C	
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	PH_FLD	pH (Field)	8.01	S.U.	
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	DO_FLD	Dissolved Oxygen (field) mg/L	6.55	mg/l	
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	724	uS/cm	
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	\$ICP	Antimony	0.00	mg/L	0.006
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	\$ICP	Arsenic	0.0348	mg/L	0.012
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	\$ICP	Barium	0.0651	mg/L	0.003
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	\$ICP	Calcium	89.9	mg/L	0.066
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	\$ICP	Chromium	0.00	mg/L	0.006
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	\$ICP	Copper	0.00	mg/L	0.006
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	\$ICP	Iron	0.266	mg/L	0.018
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	\$ICP	Lead	0.00724	mg/L	0.006
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	\$ICP	Magnesium	29.7	mg/L	0.021
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	\$ICP	Manganese	0.0628	mg/L	0.009
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	\$ICP	Nickel	0.00	mg/L	0.003
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	\$ICP	Selenium	0.0628	mg/L	0.009
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	\$ICP	Silver	0.00	mg/L	0.003
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	\$ICP	Strontium	0.375	mg/L	0.009
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	\$ICP	Thallium	0.0445	mg/L	0.012
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	\$ICP	Tin	0.00	mg/L	0.006
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	\$ICP	Zinc	0.00729	mg/L	0.006
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	PB_FU	Lead by Furnace	0	ug/L	1
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	AS_FU	Arsenic by Furnace	2.4	ug/L	1.0
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	CU_FU	Copper by Furnace	3.4	ug/L	1
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	NH3	Ammonia as N	0	mg/L	0.5
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	NO3NO2	Nitrate + Nitrite	1.76	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	TKN	Total Kjeldahl Nitrogen	1.234	mg/L	0.5
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	NO2	Nitrite as N	0.0283	mg/l	0.005
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	NO3	Nitrate as N (calculated)	1.7317	mg/l	
AC03050	LM17	Little Miami Watershed	17	6/29/2012	11:50	CHLOROPHYLL	Chlorophyll	25.1	mg/m3	1.00
AC03143	LM01	Little Miami Watershed	1	7/2/2012	09:20	MF_CF	Fecal Coliform, Membrane Filter	370	CFU/100mL	
AC03143	LM01	Little Miami Watershed	1	7/2/2012	09:20	E-COLI	E.coli (Colilert)	236	MPN	
AC03143	LM01	Little Miami Watershed	1	7/2/2012	09:20	TDS	Total Dissolved Solids	610	mg/L	
AC03143	LM01	Little Miami Watershed	1	7/2/2012	09:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03143	LM01	Little Miami Watershed	1	7/2/2012	09:20	SO4	Sulfate	62.5	mg/L	1.00
AC03143	LM01	Little Miami Watershed	1	7/2/2012	09:20	CL	Chloride	118	mg/L	1.00
AC03143	LM01	Little Miami Watershed	1	7/2/2012	09:20	TSS	Tot. Suspended Solids	16	mg/L	2
AC03143	LM01	Little Miami Watershed	1	7/2/2012	09:20	SSC	Suspended Sediment Concentration	11.0	mg/L	5.0
AC03143	LM01	Little Miami Watershed	1	7/2/2012	09:20	HARD	Hardness as CaCO3	318	mg/l	
AC03143	LM01	Little Miami Watershed	1	7/2/2012	09:20	COD	COD	22	mg/L	
AC03143	LM01	Little Miami Watershed	1	7/2/2012	09:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	885	uS/cm	
AC03143	LM01	Little Miami Watershed	1	7/2/2012	09:20	TEMP_FLD	Temperature (Field) Celsius	25.47	Deg C	
AC03143	LM01	Little Miami Watershed	1	7/2/2012	09:20	PH_FLD	pH (Field)	8.07	S.U.	
AC03143	LM01	Little Miami Watershed	1	7/2/2012	09:20	DO_FLD	Dissolved Oxygen (field) mg/L	7.90	mg/l	
AC03143	LM01	Little Miami Watershed	1	7/2/2012	09:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	877	uS/cm	
AC03143	LM01	Little Miami Watershed	1	7/2/2012	09:20	NH3	Ammonia as N	0	mg/L	0.5
AC03143	LM01	Little Miami Watershed	1	7/2/2012	09:20	NO3NO2	Nitrate + Nitrite	2.05	mg/L	0.5
AC03143	LM01	Little Miami Watershed	1	7/2/2012	09:20	TKN	Total Kjeldahl Nitrogen	1.1328	mg/L	0.5
AC03143	LM01	Little Miami Watershed	1	7/2/2012	09:20	TKP	Total Kjeldahl Phosphorus	0.4179	mg/L	0.5
AC03143	LM01	Little Miami Watershed	1	7/2/2012	09:20	NO2	Nitrite as N	0.1206	mg/l	0.005
AC03143	LM01	Little Miami Watershed	1	7/2/2012	09:20	NO3	Nitrate as N (calculated)	1.9294	mg/l	
AC03143	LM01	Little Miami Watershed	1	7/2/2012	09:20	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC03144	LM02	Little Miami Watershed	2	7/2/2012	10:15	MF_CF	Fecal Coliform, Membrane Filter	431	CFU/100mL	
AC03144	LM02	Little Miami Watershed	2	7/2/2012	10:15	E-COLI	E.coli (Colilert)	166	MPN	
AC03144	LM02	Little Miami Watershed	2	7/2/2012	10:15	TDS	Total Dissolved Solids	490	mg/L	
AC03144	LM02	Little Miami Watershed	2	7/2/2012	10:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03144	LM02	Little Miami Watershed	2	7/2/2012	10:15	SO4	Sulfate	49.2	mg/L	1.00
AC03144	LM02	Little Miami Watershed	2	7/2/2012	10:15	CL	Chloride	87.8	mg/L	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03144	LM02	Little Miami Watershed	2	7/2/2012	10:15	TSS	Tot. Suspended Solids	24	mg/L	2
AC03144	LM02	Little Miami Watershed	2	7/2/2012	10:15	SSC	Suspended Sediment Concentration	14.0	mg/L	5.0
AC03144	LM02	Little Miami Watershed	2	7/2/2012	10:15	HARD	Hardness as CaCO3	312	mg/l	
AC03144	LM02	Little Miami Watershed	2	7/2/2012	10:15	COD	COD	14	mg/L	
AC03144	LM02	Little Miami Watershed	2	7/2/2012	10:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	808	uS/cm	
AC03144	LM02	Little Miami Watershed	2	7/2/2012	10:15	TEMP_FLD	Temperature (Field) Celsius	26.46	Deg C	
AC03144	LM02	Little Miami Watershed	2	7/2/2012	10:15	PH_FLD	pH (Field)	8.09	S.U.	
AC03144	LM02	Little Miami Watershed	2	7/2/2012	10:15	DO_FLD	Dissolved Oxygen (field) mg/L	7.25	mg/l	
AC03144	LM02	Little Miami Watershed	2	7/2/2012	10:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	786	uS/cm	
AC03144	LM02	Little Miami Watershed	2	7/2/2012	10:15	NH3	Ammonia as N	0	mg/L	0.5
AC03144	LM02	Little Miami Watershed	2	7/2/2012	10:15	NO3NO2	Nitrate + Nitrite	1.61	mg/L	0.5
AC03144	LM02	Little Miami Watershed	2	7/2/2012	10:15	TKN	Total Kjeldahl Nitrogen	0.6739	mg/L	0.5
AC03144	LM02	Little Miami Watershed	2	7/2/2012	10:15	TKP	Total Kjeldahl Phosphorus	0.3981	mg/L	0.5
AC03144	LM02	Little Miami Watershed	2	7/2/2012	10:15	NO2	Nitrite as N	0.0466	mg/l	0.005
AC03144	LM02	Little Miami Watershed	2	7/2/2012	10:15	NO3	Nitrate as N (calculated)	1.5634	mg/l	
AC03144	LM02	Little Miami Watershed	2	7/2/2012	10:15	CHLOROPHYLL	Chlorophyll	3.74	mg/m3	1.00
AC03145	LM03	Little Miami Watershed	3	7/2/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	229	CFU/100mL	
AC03145	LM03	Little Miami Watershed	3	7/2/2012	10:30	E-COLI	E.coli (Colilert)	488	MPN	
AC03145	LM03	Little Miami Watershed	3	7/2/2012	10:30	TDS	Total Dissolved Solids	540	mg/L	
AC03145	LM03	Little Miami Watershed	3	7/2/2012	10:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03145	LM03	Little Miami Watershed	3	7/2/2012	10:30	SO4	Sulfate	53.2	mg/L	1.00
AC03145	LM03	Little Miami Watershed	3	7/2/2012	10:30	CL	Chloride	89.3	mg/L	1.00
AC03145	LM03	Little Miami Watershed	3	7/2/2012	10:30	TSS	Tot. Suspended Solids	16	mg/L	2
AC03145	LM03	Little Miami Watershed	3	7/2/2012	10:30	SSC	Suspended Sediment Concentration	15.0	mg/L	5.0
AC03145	LM03	Little Miami Watershed	3	7/2/2012	10:30	HARD	Hardness as CaCO3	300	mg/l	
AC03145	LM03	Little Miami Watershed	3	7/2/2012	10:30	COD	COD	13	mg/L	
AC03145	LM03	Little Miami Watershed	3	7/2/2012	10:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	793	uS/cm	
AC03145	LM03	Little Miami Watershed	3	7/2/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	26.79	Deg C	
AC03145	LM03	Little Miami Watershed	3	7/2/2012	10:30	PH_FLD	pH (Field)	8.10	S.U.	
AC03145	LM03	Little Miami Watershed	3	7/2/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	7.82	mg/l	
AC03145	LM03	Little Miami Watershed	3	7/2/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	766	uS/cm	
AC03145	LM03	Little Miami Watershed	3	7/2/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC03145	LM03	Little Miami Watershed	3	7/2/2012	10:30	NO3NO2	Nitrate + Nitrite	2.85	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03145	LM03	Little Miami Watershed	3	7/2/2012	10:30	TKN	Total Kjeldahl Nitrogen	0.7855	mg/L	0.5
AC03145	LM03	Little Miami Watershed	3	7/2/2012	10:30	TKP	Total Kjeldahl Phosphorus	0.4912	mg/L	0.5
AC03145	LM03	Little Miami Watershed	3	7/2/2012	10:30	NO2	Nitrite as N	0.0509	mg/l	0.005
AC03145	LM03	Little Miami Watershed	3	7/2/2012	10:30	NO3	Nitrate as N (calculated)	2.7991	mg/l	
AC03145	LM03	Little Miami Watershed	3	7/2/2012	10:30	CHLOROPHYLL	Chlorophyll	4.27	mg/m3	1.00
AC03146	LM04	Little Miami Watershed	4	7/2/2012	10:50	MF_CF	Fecal Coliform, Membrane Filter	867	CFU/100mL	
AC03146	LM04	Little Miami Watershed	4	7/2/2012	10:50	E-COLI	E.coli (Colilert)	1046	MPN	
AC03146	LM04	Little Miami Watershed	4	7/2/2012	10:50	TDS	Total Dissolved Solids	490	mg/L	
AC03146	LM04	Little Miami Watershed	4	7/2/2012	10:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03146	LM04	Little Miami Watershed	4	7/2/2012	10:50	SO4	Sulfate	53.5	mg/L	1.00
AC03146	LM04	Little Miami Watershed	4	7/2/2012	10:50	CL	Chloride	88.1	mg/L	1.00
AC03146	LM04	Little Miami Watershed	4	7/2/2012	10:50	TSS	Tot. Suspended Solids	14	mg/L	2
AC03146	LM04	Little Miami Watershed	4	7/2/2012	10:50	SSC	Suspended Sediment Concentration	16.0	mg/L	5.0
AC03146	LM04	Little Miami Watershed	4	7/2/2012	10:50	HARD	Hardness as CaCO3	298	mg/l	
AC03146	LM04	Little Miami Watershed	4	7/2/2012	10:50	COD	COD	12	mg/L	
AC03146	LM04	Little Miami Watershed	4	7/2/2012	10:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	817	uS/cm	
AC03146	LM04	Little Miami Watershed	4	7/2/2012	10:50	TEMP_FLD	Temperature (Field) Celsius	27.25	Deg C	
AC03146	LM04	Little Miami Watershed	4	7/2/2012	10:50	PH_FLD	pH (Field)	8.11	S.U.	
AC03146	LM04	Little Miami Watershed	4	7/2/2012	10:50	DO_FLD	Dissolved Oxygen (field) mg/L	7.05	mg/l	
AC03146	LM04	Little Miami Watershed	4	7/2/2012	10:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	784	uS/cm	
AC03146	LM04	Little Miami Watershed	4	7/2/2012	10:50	NH3	Ammonia as N	0	mg/L	0.5
AC03146	LM04	Little Miami Watershed	4	7/2/2012	10:50	NO3NO2	Nitrate + Nitrite	3.06	mg/L	0.5
AC03146	LM04	Little Miami Watershed	4	7/2/2012	10:50	TKN	Total Kjeldahl Nitrogen	0.8306	mg/L	0.5
AC03146	LM04	Little Miami Watershed	4	7/2/2012	10:50	TKP	Total Kjeldahl Phosphorus	0.5084	mg/L	0.5
AC03146	LM04	Little Miami Watershed	4	7/2/2012	10:50	NO2	Nitrite as N	0.0442	mg/l	0.005
AC03146	LM04	Little Miami Watershed	4	7/2/2012	10:50	NO3	Nitrate as N (calculated)	3.0158	mg/l	
AC03146	LM04	Little Miami Watershed	4	7/2/2012	10:50	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC03147	LM05	Little Miami Watershed	5	7/2/2012	11:20	MF_CF	Fecal Coliform, Membrane Filter	425	CFU/100mL	
AC03147	LM05	Little Miami Watershed	5	7/2/2012	11:20	E-COLI	E.coli (Colilert)	816	MPN	
AC03147	LM05	Little Miami Watershed	5	7/2/2012	11:20	TDS	Total Dissolved Solids	520	mg/L	
AC03147	LM05	Little Miami Watershed	5	7/2/2012	11:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03147	LM05	Little Miami Watershed	5	7/2/2012	11:20	SO4	Sulfate	56.2	mg/L	1.00
AC03147	LM05	Little Miami Watershed	5	7/2/2012	11:20	CL	Chloride	90.0	mg/L	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03147	LM05	Little Miami Watershed	5	7/2/2012	11:20	TSS	Tot. Suspended Solids	20	mg/L	2
AC03147	LM05	Little Miami Watershed	5	7/2/2012	11:20	SSC	Suspended Sediment Concentration	16.0	mg/L	5.0
AC03147	LM05	Little Miami Watershed	5	7/2/2012	11:20	HARD	Hardness as CaCO3	298	mg/l	
AC03147	LM05	Little Miami Watershed	5	7/2/2012	11:20	COD	COD	25	mg/L	
AC03147	LM05	Little Miami Watershed	5	7/2/2012	11:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	822	uS/cm	
AC03147	LM05	Little Miami Watershed	5	7/2/2012	11:20	TEMP_FLD	Temperature (Field) Celsius	27.02	Deg C	
AC03147	LM05	Little Miami Watershed	5	7/2/2012	11:20	PH_FLD	pH (Field)	8.14	S.U.	
AC03147	LM05	Little Miami Watershed	5	7/2/2012	11:20	DO_FLD	Dissolved Oxygen (field) mg/L	8.23	mg/l	
AC03147	LM05	Little Miami Watershed	5	7/2/2012	11:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	791	uS/cm	
AC03147	LM05	Little Miami Watershed	5	7/2/2012	11:20	NH3	Ammonia as N	0	mg/L	0.5
AC03147	LM05	Little Miami Watershed	5	7/2/2012	11:20	NO3NO2	Nitrate + Nitrite	3.13	mg/L	0.5
AC03147	LM05	Little Miami Watershed	5	7/2/2012	11:20	TKN	Total Kjeldahl Nitrogen	0.9265	mg/L	0.5
AC03147	LM05	Little Miami Watershed	5	7/2/2012	11:20	TKP	Total Kjeldahl Phosphorus	0.5273	mg/L	0.5
AC03147	LM05	Little Miami Watershed	5	7/2/2012	11:20	NO2	Nitrite as N	0.0446	mg/l	0.005
AC03147	LM05	Little Miami Watershed	5	7/2/2012	11:20	NO3	Nitrate as N (calculated)	3.0854	mg/l	
AC03147	LM05	Little Miami Watershed	5	7/2/2012	11:20	CHLOROPHYLL	Chlorophyll	3.74	mg/m3	1.00
AC03148	LM06	Little Miami Watershed	6	7/2/2012	11:40	MF_CF	Fecal Coliform, Membrane Filter	1600	CFU/100mL	
AC03148	LM06	Little Miami Watershed	6	7/2/2012	11:40	E-COLI	E.coli (Colilert)	1986	MPN	
AC03148	LM06	Little Miami Watershed	6	7/2/2012	11:40	TDS	Total Dissolved Solids	490	mg/L	
AC03148	LM06	Little Miami Watershed	6	7/2/2012	11:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03148	LM06	Little Miami Watershed	6	7/2/2012	11:40	SO4	Sulfate	50.2	mg/L	1.00
AC03148	LM06	Little Miami Watershed	6	7/2/2012	11:40	CL	Chloride	82.6	mg/L	1.00
AC03148	LM06	Little Miami Watershed	6	7/2/2012	11:40	TSS	Tot. Suspended Solids	18	mg/L	2
AC03148	LM06	Little Miami Watershed	6	7/2/2012	11:40	SSC	Suspended Sediment Concentration	17.0	mg/L	5.0
AC03148	LM06	Little Miami Watershed	6	7/2/2012	11:40	HARD	Hardness as CaCO3	276	mg/l	
AC03148	LM06	Little Miami Watershed	6	7/2/2012	11:40	COD	COD	51	mg/L	
AC03148	LM06	Little Miami Watershed	6	7/2/2012	11:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	739	uS/cm	
AC03148	LM06	Little Miami Watershed	6	7/2/2012	11:40	TEMP_FLD	Temperature (Field) Celsius	26.02	Deg C	
AC03148	LM06	Little Miami Watershed	6	7/2/2012	11:40	PH_FLD	pH (Field)	7.96	S.U.	
AC03148	LM06	Little Miami Watershed	6	7/2/2012	11:40	DO_FLD	Dissolved Oxygen (field) mg/L	6.15	mg/l	
AC03148	LM06	Little Miami Watershed	6	7/2/2012	11:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	725	uS/cm	
AC03148	LM06	Little Miami Watershed	6	7/2/2012	11:40	NH3	Ammonia as N	0	mg/L	0.5
AC03148	LM06	Little Miami Watershed	6	7/2/2012	11:40	NO3NO2	Nitrate + Nitrite	1.50	mg/L	0.5



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03148	LM06	Little Miami Watershed	6	7/2/2012	11:40	TKN	Total Kjeldahl Nitrogen	1.1070	mg/L	0.5
AC03148	LM06	Little Miami Watershed	6	7/2/2012	11:40	TKP	Total Kjeldahl Phosphorus	0.4370	mg/L	0.5
AC03148	LM06	Little Miami Watershed	6	7/2/2012	11:40	NO2	Nitrite as N	0.0353	mg/l	0.005
AC03148	LM06	Little Miami Watershed	6	7/2/2012	11:40	NO3	Nitrate as N (calculated)	1.4647	mg/l	
AC03148	LM06	Little Miami Watershed	6	7/2/2012	11:40	CHLOROPHYLL	Chlorophyll	5.34	mg/m3	1.00
AC03149	LM08	Little Miami Watershed	8	7/2/2012	12:00	MF_CF	Fecal Coliform, Membrane Filter	2700	CFU/100mL	
AC03149	LM08	Little Miami Watershed	8	7/2/2012	12:00	E-COLI	E.coli (Colilert)	1986	MPN	
AC03149	LM08	Little Miami Watershed	8	7/2/2012	12:00	TDS	Total Dissolved Solids	280	mg/L	
AC03149	LM08	Little Miami Watershed	8	7/2/2012	12:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03149	LM08	Little Miami Watershed	8	7/2/2012	12:00	SO4	Sulfate	49.5	mg/L	1.00
AC03149	LM08	Little Miami Watershed	8	7/2/2012	12:00	CL	Chloride	73.6	mg/L	1.00
AC03149	LM08	Little Miami Watershed	8	7/2/2012	12:00	TSS	Tot. Suspended Solids	34	mg/L	2
AC03149	LM08	Little Miami Watershed	8	7/2/2012	12:00	SSC	Suspended Sediment Concentration	26.0	mg/L	5.0
AC03149	LM08	Little Miami Watershed	8	7/2/2012	12:00	HARD	Hardness as CaCO3	238	mg/l	
AC03149	LM08	Little Miami Watershed	8	7/2/2012	12:00	COD	COD	49	mg/L	
AC03149	LM08	Little Miami Watershed	8	7/2/2012	12:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	638	uS/cm	
AC03149	LM08	Little Miami Watershed	8	7/2/2012	12:00	TEMP_FLD	Temperature (Field) Celsius	26.23	Deg C	
AC03149	LM08	Little Miami Watershed	8	7/2/2012	12:00	PH_FLD	pH (Field)	7.99	S.U.	
AC03149	LM08	Little Miami Watershed	8	7/2/2012	12:00	DO_FLD	Dissolved Oxygen (field) mg/L	7.65	mg/l	
AC03149	LM08	Little Miami Watershed	8	7/2/2012	12:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	623	uS/cm	
AC03149	LM08	Little Miami Watershed	8	7/2/2012	12:00	NH3	Ammonia as N	0	mg/L	0.5
AC03149	LM08	Little Miami Watershed	8	7/2/2012	12:00	NO3NO2	Nitrate + Nitrite	2.02	mg/L	0.5
AC03149	LM08	Little Miami Watershed	8	7/2/2012	12:00	TKN	Total Kjeldahl Nitrogen	0.8364	mg/L	0.5
AC03149	LM08	Little Miami Watershed	8	7/2/2012	12:00	TKP	Total Kjeldahl Phosphorus	0.3542	mg/L	0.5
AC03149	LM08	Little Miami Watershed	8	7/2/2012	12:00	NO2	Nitrite as N	0.0311	mg/l	0.005
AC03149	LM08	Little Miami Watershed	8	7/2/2012	12:00	NO3	Nitrate as N (calculated)	1.9889	mg/l	
AC03149	LM08	Little Miami Watershed	8	7/2/2012	12:00	CHLOROPHYLL	Chlorophyll	6.41	mg/m3	1.00
AC03197	LM09	Little Miami Watershed	9	7/3/2012	09:00	MF_CF	Fecal Coliform, Membrane Filter	210	CFU/100mL	
AC03197	LM09	Little Miami Watershed	9	7/3/2012	09:00	E-COLI	E.coli (Colilert)	173	MPN	
AC03197	LM09	Little Miami Watershed	9	7/3/2012	09:00	TDS	Total Dissolved Solids	400	mg/L	
AC03197	LM09	Little Miami Watershed	9	7/3/2012	09:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03197	LM09	Little Miami Watershed	9	7/3/2012	09:00	SO4	Sulfate	46.2	mg/L	1.00
AC03197	LM09	Little Miami Watershed	9	7/3/2012	09:00	CL	Chloride	87.3	mg/L	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03197	LM09	Little Miami Watershed	9	7/3/2012	09:00	TSS	Tot. Suspended Solids	20	mg/L	2
AC03197	LM09	Little Miami Watershed	9	7/3/2012	09:00	SSC	Suspended Sediment Concentration	12.0	mg/L	5.0
AC03197	LM09	Little Miami Watershed	9	7/3/2012	09:00	HARD	Hardness as CaCO3	270	mg/l	
AC03197	LM09	Little Miami Watershed	9	7/3/2012	09:00	COD	COD	49	mg/L	
AC03197	LM09	Little Miami Watershed	9	7/3/2012	09:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	798	uS/cm	
AC03197	LM09	Little Miami Watershed	9	7/3/2012	09:00	TEMP_FLD	Temperature (Field) Celsius	27.08	Deg C	
AC03197	LM09	Little Miami Watershed	9	7/3/2012	09:00	PH_FLD	pH (Field)	7.98	S.U.	
AC03197	LM09	Little Miami Watershed	9	7/3/2012	09:00	DO_FLD	Dissolved Oxygen (field) mg/L	5.92	mg/l	
AC03197	LM09	Little Miami Watershed	9	7/3/2012	09:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	767	uS/cm	
AC03197	LM09	Little Miami Watershed	9	7/3/2012	09:00	NH3	Ammonia as N	0	mg/L	0.5
AC03197	LM09	Little Miami Watershed	9	7/3/2012	09:00	NO3NO2	Nitrate + Nitrite	1.93	mg/L	0.5
AC03197	LM09	Little Miami Watershed	9	7/3/2012	09:00	TKN	Total Kjeldahl Nitrogen	0.9802	mg/L	0.5
AC03197	LM09	Little Miami Watershed	9	7/3/2012	09:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03197	LM09	Little Miami Watershed	9	7/3/2012	09:00	NO2	Nitrite as N	0.0242	mg/l	0.005
AC03197	LM09	Little Miami Watershed	9	7/3/2012	09:00	NO3	Nitrate as N (calculated)	1.9058	mg/l	
AC03197	LM09	Little Miami Watershed	9	7/3/2012	09:00	CHLOROPHYLL	Chlorophyll	6.41	mg/m3	1.00
AC03198	LM07	Little Miami Watershed	7	7/3/2012	08:30	MF_CF	Fecal Coliform, Membrane Filter	260	CFU/100mL	
AC03198	LM07	Little Miami Watershed	7	7/3/2012	08:30	E-COLI	E.coli (Colilert)	435	MPN	
AC03198	LM07	Little Miami Watershed	7	7/3/2012	08:30	TDS	Total Dissolved Solids	480	mg/L	
AC03198	LM07	Little Miami Watershed	7	7/3/2012	08:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03198	LM07	Little Miami Watershed	7	7/3/2012	08:30	SO4	Sulfate	55.5	mg/L	1.00
AC03198	LM07	Little Miami Watershed	7	7/3/2012	08:30	CL	Chloride	92.7	mg/L	1.00
AC03198	LM07	Little Miami Watershed	7	7/3/2012	08:30	TSS	Tot. Suspended Solids	23	mg/L	2
AC03198	LM07	Little Miami Watershed	7	7/3/2012	08:30	SSC	Suspended Sediment Concentration	11.0	mg/L	5.0
AC03198	LM07	Little Miami Watershed	7	7/3/2012	08:30	HARD	Hardness as CaCO3	280	mg/l	
AC03198	LM07	Little Miami Watershed	7	7/3/2012	08:30	COD	COD	49	mg/L	
AC03198	LM07	Little Miami Watershed	7	7/3/2012	08:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	868	uS/cm	
AC03198	LM07	Little Miami Watershed	7	7/3/2012	08:30	TEMP_FLD	Temperature (Field) Celsius	27.38	Deg C	
AC03198	LM07	Little Miami Watershed	7	7/3/2012	08:30	PH_FLD	pH (Field)	7.92	S.U.	
AC03198	LM07	Little Miami Watershed	7	7/3/2012	08:30	DO_FLD	Dissolved Oxygen (field) mg/L	4.65	mg/l	
AC03198	LM07	Little Miami Watershed	7	7/3/2012	08:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	831	uS/cm	
AC03198	LM07	Little Miami Watershed	7	7/3/2012	08:30	NH3	Ammonia as N	0	mg/L	0.5
AC03198	LM07	Little Miami Watershed	7	7/3/2012	08:30	NO3NO2	Nitrate + Nitrite	2.4536	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03198	LM07	Little Miami Watershed	7	7/3/2012	08:30	TKN	Total Kjeldahl Nitrogen	0.8261	mg/L	0.5
AC03198	LM07	Little Miami Watershed	7	7/3/2012	08:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03198	LM07	Little Miami Watershed	7	7/3/2012	08:30	NO2	Nitrite as N	0.0399	mg/l	0.005
AC03198	LM07	Little Miami Watershed	7	7/3/2012	08:30	NO3	Nitrate as N (calculated)	2.4137	mg/l	
AC03198	LM07	Little Miami Watershed	7	7/3/2012	08:30	CHLOROPHYLL	Chlorophyll	6.41	mg/m3	1.00
AC03199	LM10	Little Miami Watershed	10	7/3/2012	09:30	MF_CF	Fecal Coliform, Membrane Filter	229	CFU/100mL	
AC03199	LM10	Little Miami Watershed	10	7/3/2012	09:30	E-COLI	E.coli (Colilert)	179	MPN	
AC03199	LM10	Little Miami Watershed	10	7/3/2012	09:30	TDS	Total Dissolved Solids	390	mg/L	
AC03199	LM10	Little Miami Watershed	10	7/3/2012	09:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03199	LM10	Little Miami Watershed	10	7/3/2012	09:30	SO4	Sulfate	46.5	mg/L	1.00
AC03199	LM10	Little Miami Watershed	10	7/3/2012	09:30	CL	Chloride	86.5	mg/L	1.00
AC03199	LM10	Little Miami Watershed	10	7/3/2012	09:30	TSS	Tot. Suspended Solids	14	mg/L	2
AC03199	LM10	Little Miami Watershed	10	7/3/2012	09:30	SSC	Suspended Sediment Concentration	11.0	mg/L	5.0
AC03199	LM10	Little Miami Watershed	10	7/3/2012	09:30	HARD	Hardness as CaCO3	260	mg/l	
AC03199	LM10	Little Miami Watershed	10	7/3/2012	09:30	COD	COD	42	mg/L	
AC03199	LM10	Little Miami Watershed	10	7/3/2012	09:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	776	uS/cm	
AC03199	LM10	Little Miami Watershed	10	7/3/2012	09:30	TEMP_FLD	Temperature (Field) Celsius	27.11	Deg C	
AC03199	LM10	Little Miami Watershed	10	7/3/2012	09:30	PH_FLD	pH (Field)	7.99	S.U.	
AC03199	LM10	Little Miami Watershed	10	7/3/2012	09:30	DO_FLD	Dissolved Oxygen (field) mg/L	5.53	mg/l	
AC03199	LM10	Little Miami Watershed	10	7/3/2012	09:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	746	uS/cm	
AC03199	LM10	Little Miami Watershed	10	7/3/2012	09:30	NH3	Ammonia as N	0	mg/L	0.5
AC03199	LM10	Little Miami Watershed	10	7/3/2012	09:30	NO3NO2	Nitrate + Nitrite	1.74	mg/L	0.5
AC03199	LM10	Little Miami Watershed	10	7/3/2012	09:30	TKN	Total Kjeldahl Nitrogen	0.9196	mg/L	0.5
AC03199	LM10	Little Miami Watershed	10	7/3/2012	09:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03199	LM10	Little Miami Watershed	10	7/3/2012	09:30	NO2	Nitrite as N	0.0226	mg/l	0.005
AC03199	LM10	Little Miami Watershed	10	7/3/2012	09:30	NO3	Nitrate as N (calculated)	1.7174	mg/l	
AC03199	LM10	Little Miami Watershed	10	7/3/2012	09:30	CHLOROPHYLL	Chlorophyll	5.34	mg/m3	1.00
AC03200	LM11	Little Miami Watershed	11	7/3/2012	10:10	MF_CF	Fecal Coliform, Membrane Filter	136	CFU/100mL	
AC03200	LM11	Little Miami Watershed	11	7/3/2012	10:10	E-COLI	E.coli (Colilert)	201	MPN	
AC03200	LM11	Little Miami Watershed	11	7/3/2012	10:10	TDS	Total Dissolved Solids	370	mg/L	
AC03200	LM11	Little Miami Watershed	11	7/3/2012	10:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03200	LM11	Little Miami Watershed	11	7/3/2012	10:10	SO4	Sulfate	46.8	mg/L	1.00
AC03200	LM11	Little Miami Watershed	11	7/3/2012	10:10	CL	Chloride	76.3	mg/L	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03200	LM11	Little Miami Watershed	11	7/3/2012	10:10	TSS	Tot. Suspended Solids	22	mg/L	2
AC03200	LM11	Little Miami Watershed	11	7/3/2012	10:10	SSC	Suspended Sediment Concentration	12.0	mg/L	5.0
AC03200	LM11	Little Miami Watershed	11	7/3/2012	10:10	HARD	Hardness as CaCO3	252	mg/l	
AC03200	LM11	Little Miami Watershed	11	7/3/2012	10:10	COD	COD	42	mg/L	
AC03200	LM11	Little Miami Watershed	11	7/3/2012	10:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	713	uS/cm	
AC03200	LM11	Little Miami Watershed	11	7/3/2012	10:10	TEMP_FLD	Temperature (Field) Celsius	27.40	Deg C	
AC03200	LM11	Little Miami Watershed	11	7/3/2012	10:10	PH_FLD	pH (Field)	8.01	S.U.	
AC03200	LM11	Little Miami Watershed	11	7/3/2012	10:10	DO_FLD	Dissolved Oxygen (field) mg/L	6.59	mg/l	
AC03200	LM11	Little Miami Watershed	11	7/3/2012	10:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	682	uS/cm	
AC03200	LM11	Little Miami Watershed	11	7/3/2012	10:10	NH3	Ammonia as N	0	mg/L	0.5
AC03200	LM11	Little Miami Watershed	11	7/3/2012	10:10	NO3NO2	Nitrate + Nitrite	1.98	mg/L	0.5
AC03200	LM11	Little Miami Watershed	11	7/3/2012	10:10	TKN	Total Kjeldahl Nitrogen	0.9050	mg/L	0.5
AC03200	LM11	Little Miami Watershed	11	7/3/2012	10:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03200	LM11	Little Miami Watershed	11	7/3/2012	10:10	NO2	Nitrite as N	0.0226	mg/l	0.005
AC03200	LM11	Little Miami Watershed	11	7/3/2012	10:10	NO3	Nitrate as N (calculated)	1.9574	mg/l	
AC03200	LM11	Little Miami Watershed	11	7/3/2012	10:10	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC03201	LM12	Little Miami Watershed	12	7/3/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	114	CFU/100mL	
AC03201	LM12	Little Miami Watershed	12	7/3/2012	10:30	E-COLI	E.coli (Colilert)	99	MPN	
AC03201	LM12	Little Miami Watershed	12	7/3/2012	10:30	TDS	Total Dissolved Solids	310	mg/L	
AC03201	LM12	Little Miami Watershed	12	7/3/2012	10:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03201	LM12	Little Miami Watershed	12	7/3/2012	10:30	SO4	Sulfate	44.8	mg/L	1.00
AC03201	LM12	Little Miami Watershed	12	7/3/2012	10:30	CL	Chloride	78.8	mg/L	1.00
AC03201	LM12	Little Miami Watershed	12	7/3/2012	10:30	TSS	Tot. Suspended Solids	14	mg/L	2
AC03201	LM12	Little Miami Watershed	12	7/3/2012	10:30	SSC	Suspended Sediment Concentration	11.0	mg/L	5.0
AC03201	LM12	Little Miami Watershed	12	7/3/2012	10:30	HARD	Hardness as CaCO3	246	mg/l	
AC03201	LM12	Little Miami Watershed	12	7/3/2012	10:30	COD	COD	54	mg/L	
AC03201	LM12	Little Miami Watershed	12	7/3/2012	10:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	704	uS/cm	
AC03201	LM12	Little Miami Watershed	12	7/3/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	27.12	Deg C	
AC03201	LM12	Little Miami Watershed	12	7/3/2012	10:30	PH_FLD	pH (Field)	7.87	S.U.	
AC03201	LM12	Little Miami Watershed	12	7/3/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	5.86	mg/l	
AC03201	LM12	Little Miami Watershed	12	7/3/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	677	uS/cm	
AC03201	LM12	Little Miami Watershed	12	7/3/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC03201	LM12	Little Miami Watershed	12	7/3/2012	10:30	NO3NO2	Nitrate + Nitrite	1.82	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03201	LM12	Little Miami Watershed	12	7/3/2012	10:30	TKN	Total Kjeldahl Nitrogen	0.9625	mg/L	0.5
AC03201	LM12	Little Miami Watershed	12	7/3/2012	10:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03201	LM12	Little Miami Watershed	12	7/3/2012	10:30	NO2	Nitrite as N	0.0246	mg/l	0.005
AC03201	LM12	Little Miami Watershed	12	7/3/2012	10:30	NO3	Nitrate as N (calculated)	1.7954	mg/l	
AC03201	LM12	Little Miami Watershed	12	7/3/2012	10:30	CHLOROPHYLL	Chlorophyll	5.87	mg/m3	1.00
AC03202	LM13	Little Miami Watershed	13	7/3/2012	11:05	MF_CF	Fecal Coliform, Membrane Filter	179	CFU/100mL	
AC03202	LM13	Little Miami Watershed	13	7/3/2012	11:05	E-COLI	E.coli (Colilert)	192	MPN	
AC03202	LM13	Little Miami Watershed	13	7/3/2012	11:05	TDS	Total Dissolved Solids	350	mg/L	
AC03202	LM13	Little Miami Watershed	13	7/3/2012	11:05	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03202	LM13	Little Miami Watershed	13	7/3/2012	11:05	SO4	Sulfate	42.0	mg/L	1.00
AC03202	LM13	Little Miami Watershed	13	7/3/2012	11:05	CL	Chloride	80.6	mg/L	1.00
AC03202	LM13	Little Miami Watershed	13	7/3/2012	11:05	TSS	Tot. Suspended Solids	22	mg/L	2
AC03202	LM13	Little Miami Watershed	13	7/3/2012	11:05	SSC	Suspended Sediment Concentration	13.0	mg/L	5.0
AC03202	LM13	Little Miami Watershed	13	7/3/2012	11:05	HARD	Hardness as CaCO3	262	mg/l	
AC03202	LM13	Little Miami Watershed	13	7/3/2012	11:05	COD	COD	56	mg/L	
AC03202	LM13	Little Miami Watershed	13	7/3/2012	11:05	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	718	uS/cm	
AC03202	LM13	Little Miami Watershed	13	7/3/2012	11:05	TEMP_FLD	Temperature (Field) Celsius	27.56	Deg C	
AC03202	LM13	Little Miami Watershed	13	7/3/2012	11:05	PH_FLD	pH (Field)	7.94	S.U.	
AC03202	LM13	Little Miami Watershed	13	7/3/2012	11:05	DO_FLD	Dissolved Oxygen (field) mg/L	6.65	mg/l	
AC03202	LM13	Little Miami Watershed	13	7/3/2012	11:05	CONDUCTIVITY	Specific Conductivity (uS/cm)	684	uS/cm	
AC03202	LM13	Little Miami Watershed	13	7/3/2012	11:05	NH3	Ammonia as N	0	mg/L	0.5
AC03202	LM13	Little Miami Watershed	13	7/3/2012	11:05	NO3NO2	Nitrate + Nitrite	1.83	mg/L	0.5
AC03202	LM13	Little Miami Watershed	13	7/3/2012	11:05	TKN	Total Kjeldahl Nitrogen	1.071	mg/L	0.5
AC03202	LM13	Little Miami Watershed	13	7/3/2012	11:05	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03202	LM13	Little Miami Watershed	13	7/3/2012	11:05	NO2	Nitrite as N	0.0259	mg/l	0.005
AC03202	LM13	Little Miami Watershed	13	7/3/2012	11:05	NO3	Nitrate as N (calculated)	1.8041	mg/l	
AC03202	LM13	Little Miami Watershed	13	7/3/2012	11:05	CHLOROPHYLL	Chlorophyll	8.01	mg/m3	1.00
AC03203	LM15	Little Miami Watershed	15	7/3/2012	11:35	MF_CF	Fecal Coliform, Membrane Filter	164	CFU/100mL	
AC03203	LM15	Little Miami Watershed	15	7/3/2012	11:35	E-COLI	E.coli (Colilert)	96	MPN	
AC03203	LM15	Little Miami Watershed	15	7/3/2012	11:35	TDS	Total Dissolved Solids	320	mg/L	
AC03203	LM15	Little Miami Watershed	15	7/3/2012	11:35	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03203	LM15	Little Miami Watershed	15	7/3/2012	11:35	SO4	Sulfate	46.8	mg/L	1.00
AC03203	LM15	Little Miami Watershed	15	7/3/2012	11:35	CL	Chloride	80.3	mg/L	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03203	LM15	Little Miami Watershed	15	7/3/2012	11:35	TSS	Tot. Suspended Solids	16	mg/L	2
AC03203	LM15	Little Miami Watershed	15	7/3/2012	11:35	SSC	Suspended Sediment Concentration	11.0	mg/L	5.0
AC03203	LM15	Little Miami Watershed	15	7/3/2012	11:35	HARD	Hardness as CaCO3	256	mg/l	
AC03203	LM15	Little Miami Watershed	15	7/3/2012	11:35	COD	COD	50	mg/L	
AC03203	LM15	Little Miami Watershed	15	7/3/2012	11:35	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	754	uS/cm	
AC03203	LM15	Little Miami Watershed	15	7/3/2012	11:35	TEMP_FLD	Temperature (Field) Celsius	28.00	Deg C	
AC03203	LM15	Little Miami Watershed	15	7/3/2012	11:35	PH_FLD	pH (Field)	8.00	S.U.	
AC03203	LM15	Little Miami Watershed	15	7/3/2012	11:35	DO_FLD	Dissolved Oxygen (field) mg/L	7.92	mg/l	
AC03203	LM15	Little Miami Watershed	15	7/3/2012	11:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	713	uS/cm	
AC03203	LM15	Little Miami Watershed	15	7/3/2012	11:35	NH3	Ammonia as N	0	mg/L	0.5
AC03203	LM15	Little Miami Watershed	15	7/3/2012	11:35	NO3NO2	Nitrate + Nitrite	1.76	mg/L	0.5
AC03203	LM15	Little Miami Watershed	15	7/3/2012	11:35	TKN	Total Kjeldahl Nitrogen	0.9411	mg/L	0.5
AC03203	LM15	Little Miami Watershed	15	7/3/2012	11:35	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03203	LM15	Little Miami Watershed	15	7/3/2012	11:35	NO2	Nitrite as N	0.0238	mg/l	0.005
AC03203	LM15	Little Miami Watershed	15	7/3/2012	11:35	NO3	Nitrate as N (calculated)	1.7362	mg/l	
AC03203	LM15	Little Miami Watershed	15	7/3/2012	11:35	CHLOROPHYLL	Chlorophyll	9.08	mg/m3	1.00
AC03296	LM16	Little Miami Watershed	16 (3261-02)	7/5/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	50	CFU/100mL	
AC03296	LM16	Little Miami Watershed	16 (3261-02)	7/5/2012	10:30	E-COLI	E.coli (Colilert)	79	MPN	
AC03296	LM16	Little Miami Watershed	16 (3261-02)	7/5/2012	10:30	TDS	Total Dissolved Solids	240	mg/L	
AC03296	LM16	Little Miami Watershed	16 (3261-02)	7/5/2012	10:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03296	LM16	Little Miami Watershed	16 (3261-02)	7/5/2012	10:30	SO4	Sulfate	50.2	mg/L	1.00
AC03296	LM16	Little Miami Watershed	16 (3261-02)	7/5/2012	10:30	CL	Chloride	88.2	mg/L	1.00
AC03296	LM16	Little Miami Watershed	16 (3261-02)	7/5/2012	10:30	TSS	Tot. Suspended Solids	20	mg/L	2
AC03296	LM16	Little Miami Watershed	16 (3261-02)	7/5/2012	10:30	SSC	Suspended Sediment Concentration	13.0	mg/L	5.0
AC03296	LM16	Little Miami Watershed	16 (3261-02)	7/5/2012	10:30	HARD	Hardness as CaCO3	320	mg/l	
AC03296	LM16	Little Miami Watershed	16 (3261-02)	7/5/2012	10:30	COD	COD	22	mg/L	
AC03296	LM16	Little Miami Watershed	16 (3261-02)	7/5/2012	10:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	881	uS/cm	
AC03296	LM16	Little Miami Watershed	16 (3261-02)	7/5/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	29.61	Deg C	
AC03296	LM16	Little Miami Watershed	16 (3261-02)	7/5/2012	10:30	PH_FLD	pH (Field)	8.04	S.U.	
AC03296	LM16	Little Miami Watershed	16 (3261-02)	7/5/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	7.09	mg/l	
AC03296	LM16	Little Miami Watershed	16 (3261-02)	7/5/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	808	uS/cm	
AC03296	LM16	Little Miami Watershed	16 (3261-02)	7/5/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC03296	LM16	Little Miami Watershed	16 (3261-02)	7/5/2012	10:30	NO3NO2	Nitrate + Nitrite	1.504	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03296	LM16	Little Miami Watershed	16 (3261-02)	7/5/2012	10:30	TKN	Total Kjeldahl Nitrogen	1.0078	mg/L	0.5
AC03296	LM16	Little Miami Watershed	16 (3261-02)	7/5/2012	10:30	TKP	Total Kjeldahl Phosphorus	3.1957	mg/L	0.5
AC03296	LM16	Little Miami Watershed	16 (3261-02)	7/5/2012	10:30	NO2	Nitrite as N	0.0226	mg/l	0.005
AC03296	LM16	Little Miami Watershed	16 (3261-02)	7/5/2012	10:30	NO3	Nitrate as N (calculated)	1.4814	mg/l	
AC03296	LM16	Little Miami Watershed	16 (3261-02)	7/5/2012	10:30	CHLOROPHYLL	Chlorophyll	15.0	mg/m3	1.00
AC03297	LM17	Little Miami Watershed	17 (3261-01)	7/5/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	50	CFU/100mL	
AC03297	LM17	Little Miami Watershed	17 (3261-01)	7/5/2012	11:00	E-COLI	E.coli (Colilert)	51	MPN	
AC03297	LM17	Little Miami Watershed	17 (3261-01)	7/5/2012	11:00	TDS	Total Dissolved Solids	280	mg/L	
AC03297	LM17	Little Miami Watershed	17 (3261-01)	7/5/2012	11:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03297	LM17	Little Miami Watershed	17 (3261-01)	7/5/2012	11:00	SO4	Sulfate	54.0	mg/L	1.00
AC03297	LM17	Little Miami Watershed	17 (3261-01)	7/5/2012	11:00	CL	Chloride	90.8	mg/L	1.00
AC03297	LM17	Little Miami Watershed	17 (3261-01)	7/5/2012	11:00	TSS	Tot. Suspended Solids	36	mg/L	2
AC03297	LM17	Little Miami Watershed	17 (3261-01)	7/5/2012	11:00	SSC	Suspended Sediment Concentration	29.0	mg/L	5.0
AC03297	LM17	Little Miami Watershed	17 (3261-01)	7/5/2012	11:00	HARD	Hardness as CaCO3	320	mg/l	
AC03297	LM17	Little Miami Watershed	17 (3261-01)	7/5/2012	11:00	COD	COD	28	mg/L	
AC03297	LM17	Little Miami Watershed	17 (3261-01)	7/5/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	873	uS/cm	
AC03297	LM17	Little Miami Watershed	17 (3261-01)	7/5/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	29.40	Deg C	
AC03297	LM17	Little Miami Watershed	17 (3261-01)	7/5/2012	11:00	PH_FLD	pH (Field)	8.01	S.U.	
AC03297	LM17	Little Miami Watershed	17 (3261-01)	7/5/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	5.23	mg/l	
AC03297	LM17	Little Miami Watershed	17 (3261-01)	7/5/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	805	uS/cm	
AC03297	LM17	Little Miami Watershed	17 (3261-01)	7/5/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC03297	LM17	Little Miami Watershed	17 (3261-01)	7/5/2012	11:00	NO3NO2	Nitrate + Nitrite	1.63	mg/L	0.5
AC03297	LM17	Little Miami Watershed	17 (3261-01)	7/5/2012	11:00	TKN	Total Kjeldahl Nitrogen	0.9874	mg/L	0.5
AC03297	LM17	Little Miami Watershed	17 (3261-01)	7/5/2012	11:00	TKP	Total Kjeldahl Phosphorus	0.4165	mg/L	0.5
AC03297	LM17	Little Miami Watershed	17 (3261-01)	7/5/2012	11:00	NO2	Nitrite as N	0.0313	mg/l	0.005
AC03297	LM17	Little Miami Watershed	17 (3261-01)	7/5/2012	11:00	NO3	Nitrate as N (calculated)	1.5987	mg/l	
AC03297	LM17	Little Miami Watershed	17 (3261-01)	7/5/2012	11:00	CHLOROPHYLL	Chlorophyll	16.6	mg/m3	1.00
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	MF_CF	Fecal Coliform, Membrane Filter	480	CFU/100mL	
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	E-COLI	E.coli (Colilert)	260	MPN	
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	TDS	Total Dissolved Solids	610	mg/L	
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	BOD	Biochemical Oxygen Demand	6	mg/L	2
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	SO4	Sulfate	150	mg/L	1.00
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	CL	Chloride	146	mg/L	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	TSS	Tot. Suspended Solids	106	mg/L	2
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	SSC	Suspended Sediment Concentration	159	mg/L	5.0
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	HARD	Hardness as CaCO3	438	mg/l	
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	COD	COD	30	mg/L	
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1163	uS/cm	
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	TEMP_FLD	Temperature (Field) Celsius	26.84	Deg C	
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	PH_FLD	pH (Field)	8.03	S.U.	
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	DO_FLD	Dissolved Oxygen (field) mg/L	17.58	mg/l	
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	1124	uS/cm	
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	\$ICP	Antimony	0.00	mg/L	0.006
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	\$ICP	Arsenic	0.0613	mg/L	0.012
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	\$ICP	Barium	0.0628	mg/L	0.003
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	\$ICP	Calcium	129	mg/L	0.066
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	\$ICP	Chromium	0.00	mg/L	0.006
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	\$ICP	Copper	0.00937	mg/L	0.006
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	\$ICP	Iron	0.124	mg/L	0.018
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	\$ICP	Lead	0.00645	mg/L	0.006
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	\$ICP	Magnesium	31.6	mg/L	0.021
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	\$ICP	Manganese	0.0127	mg/L	0.009
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	\$ICP	Nickel	0.00	mg/L	0.003
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	\$ICP	Selenium	0.0770	mg/L	0.009
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	\$ICP	Silver	0.00	mg/L	0.003
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	\$ICP	Strontium	0.352	mg/L	0.009
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	\$ICP	Thallium	0.00	mg/L	0.012
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	\$ICP	Tin	0.00	mg/L	0.006
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	\$ICP	Zinc	0.0108	mg/L	0.006
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	PB_FU	Lead by Furnace	2.2	ug/L	1
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	AS_FU	Arsenic by Furnace	12.7	ug/L	1.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	CU_FU	Copper by Furnace	10.6	ug/L	1
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	NO3NO2	Nitrate + Nitrite	1.25	mg/L	0.5
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	TKN	Total Kjeldahl Nitrogen	0.7802	mg/L	0.5
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	TKP	Total Kjeldahl Phosphorus	0.2967	mg/L	0.5
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	NO2	Nitrite as N	0.0122	mg/l	0.005
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	NO3	Nitrate as N (calculated)	1.2378	mg/l	
AC03298	LM75	Little Miami Watershed	75	7/5/2012	11:30	CHLOROPHYLL	Chlorophyll	18.7	mg/m3	1.00
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	E-COLI	E.coli (Colilert)	2420	MPN	
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	TDS	Total Dissolved Solids	550	mg/L	
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	SO4	Sulfate	136	mg/L	1.00
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	CL	Chloride	137	mg/L	1.00
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	TSS	Tot. Suspended Solids	76	mg/L	2
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	SSC	Suspended Sediment Concentration	9.0	mg/L	5.0
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	HARD	Hardness as CaCO3	416	mg/l	
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	COD	COD	36	mg/L	
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1114	uS/cm	
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	TEMP_FLD	Temperature (Field) Celsius	25.02	Deg C	
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	PH_FLD	pH (Field)	7.29	S.U.	
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	DO_FLD	Dissolved Oxygen (field) mg/L	.48	mg/l	
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	1115	uS/cm	
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	\$ICP	Antimony	0.00	mg/L	0.006
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	\$ICP	Arsenic	0.0426	mg/L	0.012
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	\$ICP	Barium	0.0679	mg/L	0.003
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	\$ICP	Calcium	123	mg/L	0.066
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	\$ICP	Chromium	0.00	mg/L	0.006
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	\$ICP	Cobalt	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	\$ICP	Copper	0.00	mg/L	0.006
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	\$ICP	Iron	0.607	mg/L	0.018
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	\$ICP	Lead	0.00668	mg/L	0.006
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	\$ICP	Magnesium	28.8	mg/L	0.021
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	\$ICP	Manganese	0.203	mg/L	0.009
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	\$ICP	Nickel	0.00	mg/L	0.003
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	\$ICP	Selenium	0.0315	mg/L	0.009
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	\$ICP	Silver	0.00	mg/L	0.003
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	\$ICP	Strontium	0.363	mg/L	0.009
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	\$ICP	Thallium	0.00	mg/L	0.012
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	\$ICP	Tin	0.00	mg/L	0.006
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	\$ICP	Zinc	0.0111	mg/L	0.006
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	PB_FU	Lead by Furnace	1.3	ug/L	1
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	AS_FU	Arsenic by Furnace	14.4	ug/L	1.0
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	CU_FU	Copper by Furnace	5.2	ug/L	1
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	NH3	Ammonia as N	0	mg/L	0.5
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	TKN	Total Kjeldahl Nitrogen	2.5794	mg/L	0.5
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	TKP	Total Kjeldahl Phosphorus	0.4778	mg/L	0.5
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	NO2	Nitrite as N	0.0639	mg/l	0.005
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03299	LM76	Little Miami Watershed	76	7/5/2012	12:00	CHLOROPHYLL	Chlorophyll	49.1	mg/m3	1.00
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	MF_CF	Fecal Coliform, Membrane Filter	420	CFU/100mL	
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	E-COLI	E.coli (Colilert)	1046	MPN	
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	TDS	Total Dissolved Solids	250	mg/L	
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	SO4	Sulfate	41.4	mg/L	1.00
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	CL	Chloride	44.2	mg/L	1.00
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	TSS	Tot. Suspended Solids	6	mg/L	2
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	SSC	Suspended Sediment Concentration	7.0	mg/L	5.0
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	HARD	Hardness as CaCO3	254	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	COD	COD	39	mg/L	
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	590	uS/cm	
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	TEMP_FLD	Temperature (Field) Celsius	13.47	Deg C	
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	PH_FLD	pH (Field)	6.79	S.U.	
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	DO_FLD	Dissolved Oxygen (field) mg/L	1.86	mg/l	
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	758	uS/cm	
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	\$ICP	Aluminum	0.00	mg/L	0.348
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	\$ICP	Antimony	0.00	mg/L	0.006
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	\$ICP	Arsenic	0.0400	mg/L	0.012
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	\$ICP	Barium	0.0565	mg/L	0.003
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	\$ICP	Calcium	115	mg/L	0.066
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	\$ICP	Chromium	0.00	mg/L	0.006
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	\$ICP	Copper	0.00	mg/L	0.006
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	\$ICP	Iron	0.0726	mg/L	0.018
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	\$ICP	Lead	0.00931	mg/L	0.006
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	\$ICP	Magnesium	21.2	mg/L	0.021
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	\$ICP	Manganese	0.0360	mg/L	0.009
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	\$ICP	Nickel	0.00	mg/L	0.003
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	\$ICP	Selenium	0.0606	mg/L	0.009
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	\$ICP	Silver	0.00	mg/L	0.003
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	\$ICP	Strontium	0.241	mg/L	0.009
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	\$ICP	Thallium	0.00	mg/L	0.012
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	\$ICP	Tin	0.00	mg/L	0.006
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	\$ICP	Zinc	0.00	mg/L	0.006
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	PB_FU	Lead by Furnace	AA	ug/L	1
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	AS_FU	Arsenic by Furnace	AA	ug/L	1.0
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	CU_FU	Copper by Furnace	0	ug/L	1
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	NH3	Ammonia as N	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	TKN	Total Kjeldahl Nitrogen	0.3804	mg/L	0.5
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	TKP	Total Kjeldahl Phosphorus	0.2837	mg/L	0.5
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	NO2	Nitrite as N	0.0113	mg/l	0.005
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03300	RF09	Little Miami Watershed	09	7/5/2012	08:10	CHLOROPHYLL	Chlorophyll	5.87	mg/m3	1.00
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	MF_CF	Fecal Coliform, Membrane Filter	400	CFU/100mL	
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	E-COLI	E.coli (Colilert)	248	MPN	
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	TDS	Total Dissolved Solids	100	mg/L	
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	SO4	Sulfate	45.5	mg/L	1.00
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	CL	Chloride	59.7	mg/L	1.00
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	TSS	Tot. Suspended Solids	10	mg/L	2
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	HARD	Hardness as CaCO3	268	mg/l	
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	COD	COD	34	mg/L	
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	646	uS/cm	
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	TEMP_FLD	Temperature (Field) Celsius	25.90	Deg C	
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	PH_FLD	pH (Field)	7.27	S.U.	
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	DO_FLD	Dissolved Oxygen (field) mg/L	2.80	mg/l	
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	635	uS/cm	
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	\$ICP	Antimony	0.00	mg/L	0.006
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	\$ICP	Arsenic	0.0291	mg/L	0.012
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	\$ICP	Barium	0.0564	mg/L	0.003
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	\$ICP	Calcium	72.2	mg/L	0.066
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	\$ICP	Chromium	0.00	mg/L	0.006
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	\$ICP	Copper	0.00	mg/L	0.006
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	\$ICP	Iron	0.132	mg/L	0.018
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	\$ICP	Lead	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	\$ICP	Magnesium	19.3	mg/L	0.021
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	\$ICP	Manganese	0.190	mg/L	0.009
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	\$ICP	Nickel	0.00	mg/L	0.003
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	\$ICP	Selenium	0.0328	mg/L	0.009
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	\$ICP	Silver	0.00	mg/L	0.003
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	\$ICP	Strontium	0.259	mg/L	0.009
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	\$ICP	Thallium	0.00	mg/L	0.012
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	\$ICP	Tin	0.00	mg/L	0.006
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	\$ICP	Zinc	0.00861	mg/L	0.006
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	PB_FU	Lead by Furnace	AA	ug/L	1
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	AS_FU	Arsenic by Furnace	2.0	ug/L	1.0
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	CU_FU	Copper by Furnace	3.2	ug/L	1
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	NH3	Ammonia as N	0	mg/L	0.5
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	TKN	Total Kjeldahl Nitrogen	0.6686	mg/L	0.5
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	TKP	Total Kjeldahl Phosphorus	0.2939	mg/L	0.5
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	NO2	Nitrite as N	0.0085	mg/l	0.005
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03301	RF08	Little Miami Watershed	08	7/5/2012	09:00	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	MF_CF	Fecal Coliform, Membrane Filter	93	CFU/100mL	
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	E-COLI	E.coli (Colilert)	40	MPN	
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	TDS	Total Dissolved Solids	150	mg/L	
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	SO4	Sulfate	24.1	mg/L	1.00
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	CL	Chloride	28.2	mg/L	1.00
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	TSS	Tot. Suspended Solids	4	mg/L	2
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	SSC	Suspended Sediment Concentration	9.0	mg/L	5.0
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	HARD	Hardness as CaCO3	294	mg/l	
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	COD	COD	43	mg/L	
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	594	uS/cm	
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	TEMP_FLD	Temperature (Field) Celsius	19.82	Deg C	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	PH_FLD	pH (Field)	7.21	S.U.	
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	DO_FLD	Dissolved Oxygen (field) mg/L	3.52	mg/l	
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	660	uS/cm	
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	\$ICP	Antimony	0.00	mg/L	0.006
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	\$ICP	Arsenic	0.0371	mg/L	0.012
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	\$ICP	Barium	0.0919	mg/L	0.003
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	\$ICP	Calcium	122	mg/L	0.066
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	\$ICP	Chromium	0.00	mg/L	0.006
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	\$ICP	Copper	0.00	mg/L	0.006
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	\$ICP	Iron	0.212	mg/L	0.018
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	\$ICP	Lead	0.0146	mg/L	0.006
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	\$ICP	Magnesium	27.5	mg/L	0.021
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	\$ICP	Manganese	0.0857	mg/L	0.009
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	\$ICP	Nickel	0.00	mg/L	0.003
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	\$ICP	Selenium	0.0396	mg/L	0.009
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	\$ICP	Silver	0.00	mg/L	0.003
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	\$ICP	Strontium	0.164	mg/L	0.009
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	\$ICP	Thallium	0.00	mg/L	0.012
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	\$ICP	Tin	0.00	mg/L	0.006
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	\$ICP	Zinc	0.00656	mg/L	0.006
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	PB_FU	Lead by Furnace	AA	ug/L	1
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	AS_FU	Arsenic by Furnace	AA	ug/L	1.0
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	CU_FU	Copper by Furnace	1.5	ug/L	1
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	NH3	Ammonia as N	0	mg/L	0.5
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	TKN	Total Kjeldahl Nitrogen	0.5716	mg/L	0.5
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	TKP	Total Kjeldahl Phosphorus	0.2889	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	NO2	Nitrite as N	0.0083	mg/l	0.005
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03302	RF10	Little Miami Watershed	10	7/5/2012	09:30	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	MF_CF	Fecal Coliform, Membrane Filter	520	CFU/100mL	
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	E-COLI	E.coli (Colilert)	373	MPN	
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	TDS	Total Dissolved Solids	510	mg/L	
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	SO4	Sulfate	130	mg/L	1.00
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	CL	Chloride	108	mg/L	1.00
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	TSS	Tot. Suspended Solids	34	mg/L	2
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	HARD	Hardness as CaCO3	268	mg/l	
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	COD	COD	36	mg/L	
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	836	uS/cm	
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	TEMP_FLD	Temperature (Field) Celsius	22.88	Deg C	
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	PH_FLD	pH (Field)	7.78	S.U.	
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	DO_FLD	Dissolved Oxygen (field) mg/L	8.19	mg/l	
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	873	uS/cm	
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	\$ICP	Antimony	0.00	mg/L	0.006
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	\$ICP	Arsenic	0.200	mg/L	0.012
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	\$ICP	Barium	0.0845	mg/L	0.003
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	\$ICP	Calcium	82.8	mg/L	0.066
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	\$ICP	Chromium	0.00	mg/L	0.006
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	\$ICP	Copper	0.0175	mg/L	0.006
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	\$ICP	Iron	0.914	mg/L	0.018
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	\$ICP	Lead	0.0154	mg/L	0.006
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	\$ICP	Magnesium	25.2	mg/L	0.021
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	\$ICP	Manganese	0.0433	mg/L	0.009
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	\$ICP	Nickel	0.00	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	\$ICP	Selenium	0.0517	mg/L	0.009
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	\$ICP	Silver	0.00	mg/L	0.003
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	\$ICP	Strontium	0.390	mg/L	0.009
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	\$ICP	Thallium	0.00	mg/L	0.012
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	\$ICP	Tin	0.00	mg/L	0.006
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	\$ICP	Zinc	0.0400	mg/L	0.006
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	PB_FU	Lead by Furnace	11.9	ug/L	1
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	AS_FU	Arsenic by Furnace	163	ug/L	1.0
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	CU_FU	Copper by Furnace	21.9	ug/L	1
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	NH3	Ammonia as N	0	mg/L	0.5
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	TKN	Total Kjeldahl Nitrogen	2.4232	mg/L	0.5
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	TKP	Total Kjeldahl Phosphorus	0.5831	mg/L	0.5
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	NO2	Nitrite as N	0.0241	mg/l	0.005
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03319	LM78	Little Miami Watershed	78	7/6/2012	08:00	CHLOROPHYLL	Chlorophyll	75.8	mg/m3	1.00
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	MF_CF	Fecal Coliform, Membrane Filter	320	CFU/100mL	
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	E-COLI	E.coli (Colilert)	548	MPN	
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	TDS	Total Dissolved Solids	570	mg/L	
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	BOD	Biochemical Oxygen Demand	5	mg/L	2
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	SO4	Sulfate	120	mg/L	1.00
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	CL	Chloride	255	mg/L	1.00
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	TSS	Tot. Suspended Solids	208	mg/L	2
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	SSC	Suspended Sediment Concentration	5.0	mg/L	5.0
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	HARD	Hardness as CaCO3	272	mg/l	
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	COD	COD	63	mg/L	
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1037	uS/cm	
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	TEMP_FLD	Temperature (Field) Celsius	25.72	Deg C	
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	PH_FLD	pH (Field)	7.59	S.U.	
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	DO_FLD	Dissolved Oxygen (field) mg/L	4.09	mg/l	
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	1023	uS/cm	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	\$ICP	Antimony	0.00	mg/L	0.006
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	\$ICP	Arsenic	0.141	mg/L	0.012
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	\$ICP	Barium	0.0747	mg/L	0.003
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	\$ICP	Calcium	73.8	mg/L	0.066
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	\$ICP	Chromium	0.00	mg/L	0.006
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	\$ICP	Cobalt	0.0151	mg/L	0.006
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	\$ICP	Copper	0.00635	mg/L	0.006
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	\$ICP	Iron	0.180	mg/L	0.018
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	\$ICP	Lead	0.00	mg/L	0.006
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	\$ICP	Magnesium	29.6	mg/L	0.021
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	\$ICP	Manganese	0.0715	mg/L	0.009
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	\$ICP	Nickel	0.00	mg/L	0.003
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	\$ICP	Selenium	0.0412	mg/L	0.009
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	\$ICP	Silver	0.00	mg/L	0.003
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	\$ICP	Strontium	0.370	mg/L	0.009
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	\$ICP	Thallium	0.00	mg/L	0.012
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	\$ICP	Tin	0.00	mg/L	0.006
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	\$ICP	Zinc	0.00935	mg/L	0.006
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	PB_FU	Lead by Furnace	0	ug/L	1
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	AS_FU	Arsenic by Furnace	105	ug/L	1.0
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	CU_FU	Copper by Furnace	4.9	ug/L	1
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	NH3	Ammonia as N	0	mg/L	0.5
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	TKN	Total Kjeldahl Nitrogen	0.8613	mg/L	0.5
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	TKP	Total Kjeldahl Phosphorus	0.3329	mg/L	0.5
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	NO2	Nitrite as N	0.0047	mg/l	0.005
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03320	LM73	Little Miami Watershed	73	7/6/2012	08:30	CHLOROPHYLL	Chlorophyll	5.87	mg/m3	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03321	LM14	Little Miami Watershed	14	7/6/2012	09:10	MF_CF	Fecal Coliform, Membrane Filter	86	CFU/100mL	
AC03321	LM14	Little Miami Watershed	14	7/6/2012	09:10	E-COLI	E.coli (Colilert)	129	MPN	
AC03321	LM14	Little Miami Watershed	14	7/6/2012	09:10	TDS	Total Dissolved Solids	410	mg/L	
AC03321	LM14	Little Miami Watershed	14	7/6/2012	09:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03321	LM14	Little Miami Watershed	14	7/6/2012	09:10	SO4	Sulfate	54.5	mg/L	12.5
AC03321	LM14	Little Miami Watershed	14	7/6/2012	09:10	CL	Chloride	90.9	mg/L	1.00
AC03321	LM14	Little Miami Watershed	14	7/6/2012	09:10	TSS	Tot. Suspended Solids	17	mg/L	2
AC03321	LM14	Little Miami Watershed	14	7/6/2012	09:10	SSC	Suspended Sediment Concentration	10.0	mg/L	5.0
AC03321	LM14	Little Miami Watershed	14	7/6/2012	09:10	HARD	Hardness as CaCO3	280	mg/l	
AC03321	LM14	Little Miami Watershed	14	7/6/2012	09:10	COD	COD	54	mg/L	
AC03321	LM14	Little Miami Watershed	14	7/6/2012	09:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	850	uS/cm	
AC03321	LM14	Little Miami Watershed	14	7/6/2012	09:10	TEMP_FLD	Temperature (Field) Celsius	28.35	Deg C	
AC03321	LM14	Little Miami Watershed	14	7/6/2012	09:10	PH_FLD	pH (Field)	7.98	S.U.	
AC03321	LM14	Little Miami Watershed	14	7/6/2012	09:10	DO_FLD	Dissolved Oxygen (field) mg/L	6.43	mg/l	
AC03321	LM14	Little Miami Watershed	14	7/6/2012	09:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	798	uS/cm	
AC03321	LM14	Little Miami Watershed	14	7/6/2012	09:10	NH3	Ammonia as N	0	mg/L	0.5
AC03321	LM14	Little Miami Watershed	14	7/6/2012	09:10	NO3NO2	Nitrate + Nitrite	1.76	mg/L	0.5
AC03321	LM14	Little Miami Watershed	14	7/6/2012	09:10	TKN	Total Kjeldahl Nitrogen	0.8426	mg/L	0.5
AC03321	LM14	Little Miami Watershed	14	7/6/2012	09:10	TKP	Total Kjeldahl Phosphorus	0.4326	mg/L	0.5
AC03321	LM14	Little Miami Watershed	14	7/6/2012	09:10	NO2	Nitrite as N	0.0223	mg/l	0.005
AC03321	LM14	Little Miami Watershed	14	7/6/2012	09:10	NO3	Nitrate as N (calculated)	1.7377	mg/l	
AC03321	LM14	Little Miami Watershed	14	7/6/2012	09:10	CHLOROPHYLL	Chlorophyll	12.3	mg/m3	1.00
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	MF_CF	Fecal Coliform, Membrane Filter	410	CFU/100mL	
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	E-COLI	E.coli (Colilert)	461	MPN	
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	TDS	Total Dissolved Solids	620	mg/L	
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	SO4	Sulfate	112	mg/L	1.00
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	CL	Chloride	306	mg/L	1.00
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	TSS	Tot. Suspended Solids	10	mg/L	2
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	HARD	Hardness as CaCO3	282	mg/l	
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	COD	COD	52	mg/L	
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1066	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	TEMP_FLD	Temperature (Field) Celsius	26.45	Deg C	
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	PH_FLD	pH (Field)	7.74	S.U.	
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	DO_FLD	Dissolved Oxygen (field) mg/L	5.20	mg/l	
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	1037	uS/cm	
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	\$ICP	Antimony	0.00763	mg/L	0.006
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	\$ICP	Arsenic	0.0256	mg/L	0.012
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	\$ICP	Barium	0.0620	mg/L	0.003
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	\$ICP	Calcium	101	mg/L	0.066
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	\$ICP	Chromium	0.00	mg/L	0.006
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	\$ICP	Copper	0.00	mg/L	0.006
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	\$ICP	Iron	0.103	mg/L	0.018
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	\$ICP	Lead	0.00683	mg/L	0.006
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	\$ICP	Magnesium	28.4	mg/L	0.021
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	\$ICP	Manganese	0.0249	mg/L	0.009
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	\$ICP	Nickel	0.00	mg/L	0.003
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	\$ICP	Selenium	0.0452	mg/L	0.009
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	\$ICP	Silver	0.00	mg/L	0.003
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	\$ICP	Strontium	0.356	mg/L	0.009
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	\$ICP	Thallium	0.00	mg/L	0.012
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	\$ICP	Tin	0.00	mg/L	0.006
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	\$ICP	Zinc	0.00710	mg/L	0.006
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	PB_FU	Lead by Furnace	0	ug/L	1
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	AS_FU	Arsenic by Furnace	12.1	ug/L	1.0
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	CU_FU	Copper by Furnace	4.3	ug/L	1
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	NH3	Ammonia as N	0	mg/L	0.5
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	TKN	Total Kjeldahl Nitrogen	0.9588	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	TKP	Total Kjeldahl Phosphorus	0.3051	mg/L	0.5
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	NO2	Nitrite as N	0.0296	mg/l	0.005
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03322	LM77	Little Miami Watershed	77	7/6/2012	09:40	CHLOROPHYLL	Chlorophyll	8.54	mg/m3	1.00
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	MF_CF	Fecal Coliform, Membrane Filter	1000	CFU/100mL	
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	E-COLI	E.coli (Colilert)	1300	MPN	
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	TDS	Total Dissolved Solids	560	mg/L	
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	SO4	Sulfate	86.5	mg/L	1.00
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	CL	Chloride	286	mg/L	1.00
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	TSS	Tot. Suspended Solids	8	mg/L	2
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	SSC	Suspended Sediment Concentration	84.0	mg/L	5.0
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	HARD	Hardness as CaCO3	294	mg/l	
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	COD	COD	62	mg/L	
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	940	uS/cm	
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	TEMP_FLD	Temperature (Field) Celsius	26.87	Deg C	
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	PH_FLD	pH (Field)	7.54	S.U.	
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	DO_FLD	Dissolved Oxygen (field) mg/L	3.81	mg/l	
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	908	uS/cm	
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	\$ICP	Aluminum	0.00	mg/L	0.348
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	\$ICP	Antimony	0.00632	mg/L	0.006
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	\$ICP	Arsenic	0.0425	mg/L	0.012
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	\$ICP	Barium	0.0567	mg/L	0.003
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	\$ICP	Calcium	84.0	mg/L	0.066
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	\$ICP	Chromium	0.00	mg/L	0.006
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	\$ICP	Copper	0.00	mg/L	0.006
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	\$ICP	Iron	0.171	mg/L	0.018
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	\$ICP	Lead	0.0107	mg/L	0.006
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	\$ICP	Magnesium	22.7	mg/L	0.021
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	\$ICP	Manganese	0.127	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	\$ICP	Nickel	0.00	mg/L	0.003
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	\$ICP	Selenium	0.0654	mg/L	0.009
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	\$ICP	Silver	0.00	mg/L	0.003
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	\$ICP	Strontium	0.318	mg/L	0.009
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	\$ICP	Thallium	0.0424	mg/L	0.012
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	\$ICP	Tin	0.00	mg/L	0.006
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	\$ICP	Zinc	0.0108	mg/L	0.006
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	PB_FU	Lead by Furnace	0	ug/L	1
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	AS_FU	Arsenic by Furnace	11.4	ug/L	1.0
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	CU_FU	Copper by Furnace	4.1	ug/L	1
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	NH3	Ammonia as N	0	mg/L	0.5
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	NO3NO2	Nitrate + Nitrite	0.518	mg/L	0.5
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	TKN	Total Kjeldahl Nitrogen	1.2852	mg/L	0.5
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	TKP	Total Kjeldahl Phosphorus	0.3513	mg/L	0.5
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	NO2	Nitrite as N	0.0162	mg/l	0.005
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	NO3	Nitrate as N (calculated)	0.5018	mg/l	
AC03323	LM79	Little Miami Watershed	79	7/6/2012	11:45	CHLOROPHYLL	Chlorophyll	31.0	mg/m3	1.00
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	MF_CF	Fecal Coliform, Membrane Filter	71	CFU/100mL	
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	E-COLI	E.coli (Colilert)	108	MPN	
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	TDS	Total Dissolved Solids	430	mg/L	
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	SO4	Sulfate	53.0	mg/L	1.00
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	CL	Chloride	107	mg/L	1.00
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	TSS	Tot. Suspended Solids	14	mg/L	2
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	SSC	Suspended Sediment Concentration	14.0	mg/L	5.0
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	HARD	Hardness as CaCO3	316	mg/l	
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	COD	COD	5	mg/L	
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	949	uS/cm	
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	TEMP_FLD	Temperature (Field) Celsius	27.95	Deg C	
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	PH_FLD	pH (Field)	7.89	S.U.	
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	DO_FLD	Dissolved Oxygen (field) mg/L	6.87	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	899	uS/cm	
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	\$ICP	Antimony	0.00	mg/L	0.006
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	\$ICP	Arsenic	0.0307	mg/L	0.012
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	\$ICP	Barium	0.0799	mg/L	0.003
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	\$ICP	Calcium	77.4	mg/L	0.066
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	\$ICP	Chromium	0.00	mg/L	0.006
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	\$ICP	Copper	0.00	mg/L	0.006
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	\$ICP	Iron	0.348	mg/L	0.018
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	\$ICP	Lead	0.00887	mg/L	0.006
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	\$ICP	Magnesium	29.7	mg/L	0.021
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	\$ICP	Manganese	0.0463	mg/L	0.009
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	\$ICP	Nickel	0.00	mg/L	0.003
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	\$ICP	Selenium	0.0562	mg/L	0.009
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	\$ICP	Silver	0.00	mg/L	0.003
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	\$ICP	Strontium	0.438	mg/L	0.009
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	\$ICP	Thallium	0.00	mg/L	0.012
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	\$ICP	Tin	0.00	mg/L	0.006
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	\$ICP	Zinc	0.0112	mg/L	0.006
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	AS_FU	Arsenic by Furnace	1.663	ug/L	1.0
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	CU_FU	Copper by Furnace	2.9	ug/L	1
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	NH3	Ammonia as N	0	mg/L	0.5
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	NO3NO2	Nitrate + Nitrite	1.54	mg/L	0.5
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	TKN	Total Kjeldahl Nitrogen	0.8209	mg/L	0.5
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	NO2	Nitrite as N	0.0286	mg/l	0.005
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	NO3	Nitrate as N (calculated)	1.5114	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03428	LM01	Little Miami Watershed	1	7/9/2012	09:30	CHLOROPHYLL	Chlorophyll	6.41	mg/m3	1.00
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	MF_CF	Fecal Coliform, Membrane Filter	14	CFU/100mL	
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	E-COLI	E.coli (Colilert)	35	MPN	
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	TDS	Total Dissolved Solids	410	mg/L	
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	SO4	Sulfate	51.2	mg/L	1.00
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	CL	Chloride	96.6	mg/L	1.00
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	TSS	Tot. Suspended Solids	20	mg/L	2
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	SSC	Suspended Sediment Concentration	14.0	mg/L	5.0
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	HARD	Hardness as CaCO3	302	mg/l	
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	COD	COD	24	mg/L	
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	910	uS/cm	
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	TEMP_FLD	Temperature (Field) Celsius	29.03	Deg C	
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	PH_FLD	pH (Field)	8.03	S.U.	
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	DO_FLD	Dissolved Oxygen (field) mg/L	6.81	mg/l	
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	845	uS/cm	
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	\$ICP	Aluminum	0.00	mg/L	0.348
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	\$ICP	Antimony	0.0129	mg/L	0.006
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	\$ICP	Arsenic	0.0285	mg/L	0.012
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	\$ICP	Barium	0.0795	mg/L	0.003
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	\$ICP	Calcium	76.0	mg/L	0.066
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	\$ICP	Chromium	0.00	mg/L	0.006
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	\$ICP	Copper	0.00	mg/L	0.006
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	\$ICP	Iron	0.330	mg/L	0.018
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	\$ICP	Lead	0.00687	mg/L	0.006
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	\$ICP	Magnesium	29.7	mg/L	0.021
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	\$ICP	Manganese	0.0482	mg/L	0.009
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	\$ICP	Nickel	0.00	mg/L	0.003
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	\$ICP	Selenium	0.0578	mg/L	0.009
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	\$ICP	Silver	0.00	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	\$ICP	Strontium	0.427	mg/L	0.009
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	\$ICP	Thallium	0.00	mg/L	0.012
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	\$ICP	Tin	0.00	mg/L	0.006
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	\$ICP	Zinc	0.00780	mg/L	0.006
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	AS_FU	Arsenic by Furnace	2.076	ug/L	1.0
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	CU_FU	Copper by Furnace	2.9	ug/L	1
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	NH3	Ammonia as N	0	mg/L	0.5
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	NO3NO2	Nitrate + Nitrite	1.26	mg/L	0.5
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	TKN	Total Kjeldahl Nitrogen	0.8727	mg/L	0.5
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	NO2	Nitrite as N	0.0256	mg/l	0.005
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	NO3	Nitrate as N (calculated)	1.2344	mg/l	
AC03429	LM03	Little Miami Watershed	3	7/9/2012	10:10	CHLOROPHYLL	Chlorophyll	6.41	mg/m3	1.00
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	207	CFU/100mL	
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	E-COLI	E.coli (Colilert)	238	MPN	
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	TDS	Total Dissolved Solids	470	mg/L	
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	SO4	Sulfate	94.5	mg/L	1.00
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	CL	Chloride	120	mg/L	1.00
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	TSS	Tot. Suspended Solids	16	mg/L	2
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	HARD	Hardness as CaCO3	246	mg/l	
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	COD	COD	41	mg/L	
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	938	uS/cm	
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	26.87	Deg C	
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	PH_FLD	pH (Field)	7.85	S.U.	
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	5.16	mg/l	
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	905	uS/cm	
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	\$ICP	Antimony	0.00	mg/L	0.006



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	\$ICP	Arsenic	0.0183	mg/L	0.012
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	\$ICP	Barium	0.0347	mg/L	0.003
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	\$ICP	Calcium	69.1	mg/L	0.066
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	\$ICP	Chromium	0.00	mg/L	0.006
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	\$ICP	Copper	0.00713	mg/L	0.006
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	\$ICP	Iron	0.108	mg/L	0.018
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	\$ICP	Lead	0.00633	mg/L	0.006
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	\$ICP	Magnesium	16.5	mg/L	0.021
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	\$ICP	Manganese	0.0338	mg/L	0.009
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	\$ICP	Nickel	0.00	mg/L	0.003
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	\$ICP	Selenium	0.0105	mg/L	0.009
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	\$ICP	Silver	0.00	mg/L	0.003
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	\$ICP	Strontium	0.259	mg/L	0.009
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	\$ICP	Thallium	0.0138	mg/L	0.012
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	\$ICP	Tin	0.00	mg/L	0.006
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	\$ICP	Zinc	0.0216	mg/L	0.006
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	AS_FU	Arsenic by Furnace	1.980	ug/L	1.0
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	CU_FU	Copper by Furnace	9.8	ug/L	1
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	NO3NO2	Nitrate + Nitrite	16.7	mg/L	0.5
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	TKP	Total Kjeldahl Phosphorus	1.9987	mg/L	0.5
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	NO2	Nitrite as N	0.3168	mg/l	0.005
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	NO3	Nitrate as N (calculated)	16.3832	mg/l	
AC03430	LM38	Little Miami Watershed	38	7/9/2012	10:30	CHLOROPHYLL	Chlorophyll	7.48	mg/m3	1.00
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	50	CFU/100mL	
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	E-COLI	E.coli (Colilert)	93	MPN	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	TDS	Total Dissolved Solids	490	mg/L	
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	SO4	Sulfate	68.2	mg/L	1.00
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	CL	Chloride	143	mg/L	1.00
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	TSS	Tot. Suspended Solids	6	mg/L	2
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	HARD	Hardness as CaCO3	310	mg/l	
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	COD	COD	21	mg/L	
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	941	uS/cm	
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	24.07	Deg C	
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	PH_FLD	pH (Field)	7.81	S.U.	
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	8.93	mg/l	
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	958	uS/cm	
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	\$ICP	Antimony	0.00	mg/L	0.006
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	\$ICP	Arsenic	0.0259	mg/L	0.012
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	\$ICP	Barium	0.0558	mg/L	0.003
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	\$ICP	Calcium	94.6	mg/L	0.066
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	\$ICP	Chromium	0.00	mg/L	0.006
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	\$ICP	Copper	0.00	mg/L	0.006
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	\$ICP	Iron	0.00	mg/L	0.018
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	\$ICP	Lead	0.0118	mg/L	0.006
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	\$ICP	Magnesium	21.4	mg/L	0.021
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	\$ICP	Manganese	0.00999	mg/L	0.009
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	\$ICP	Nickel	0.00	mg/L	0.003
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	\$ICP	Selenium	0.0670	mg/L	0.009
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	\$ICP	Silver	0.00	mg/L	0.003
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	\$ICP	Strontium	0.333	mg/L	0.009
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	\$ICP	Thallium	0.00	mg/L	0.012
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	\$ICP	Tin	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	\$ICP	Zinc	0.00	mg/L	0.006
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	AS_FU	Arsenic by Furnace	0.175	ug/L	1.0
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	CU_FU	Copper by Furnace	2.0	ug/L	1
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	NO2	Nitrite as N	0.0070	mg/l	0.005
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03431	LM40	Little Miami Watershed	40	7/9/2012	11:00	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	MF_CF	Fecal Coliform, Membrane Filter	129	CFU/100mL	
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	E-COLI	E.coli (Colilert)	108	MPN	
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	TDS	Total Dissolved Solids	240	mg/L	
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	SO4	Sulfate	46.5	mg/L	1.00
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	CL	Chloride	76.6	mg/L	1.00
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	TSS	Tot. Suspended Solids	8	mg/L	2
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	HARD	Hardness as CaCO3	200	mg/l	
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	COD	COD	25	mg/L	
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	619	uS/cm	
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	TEMP_FLD	Temperature (Field) Celsius	27.23	Deg C	
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	PH_FLD	pH (Field)	7.52	S.U.	
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	DO_FLD	Dissolved Oxygen (field) mg/L	6.05	mg/l	
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	593	uS/cm	
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	\$ICP	Antimony	0.00776	mg/L	0.006
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	\$ICP	Arsenic	0.0262	mg/L	0.012
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	\$ICP	Barium	0.0365	mg/L	0.003
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	\$ICP	Beryllium	0.00	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	\$ICP	Calcium	55.8	mg/L	0.066
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	\$ICP	Chromium	0.00	mg/L	0.006
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	\$ICP	Copper	0.00	mg/L	0.006
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	\$ICP	Iron	0.121	mg/L	0.018
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	\$ICP	Lead	0.00888	mg/L	0.006
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	\$ICP	Magnesium	11.5	mg/L	0.021
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	\$ICP	Manganese	0.210	mg/L	0.009
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	\$ICP	Nickel	0.00	mg/L	0.003
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	\$ICP	Selenium	0.0524	mg/L	0.009
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	\$ICP	Silver	0.00	mg/L	0.003
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	\$ICP	Strontium	0.225	mg/L	0.009
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	\$ICP	Thallium	0.00	mg/L	0.012
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	\$ICP	Tin	0.00	mg/L	0.006
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	\$ICP	Zinc	0.00	mg/L	0.006
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	AS_FU	Arsenic by Furnace	1.166	ug/L	1.0
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	CU_FU	Copper by Furnace	2.9	ug/L	1
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	TKN	Total Kjeldahl Nitrogen	0.7269	mg/L	0.5
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	NO2	Nitrite as N	0.086	mg/l	0.005
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03432	LM52	Little Miami Watershed	52	7/9/2012	11:30	CHLOROPHYLL	Chlorophyll	8.01	mg/m3	1.00
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	MF_CF	Fecal Coliform, Membrane Filter	86	CFU/100mL	
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	E-COLI	E.coli (Colilert)	96	MPN	
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	TDS	Total Dissolved Solids	220	mg/L	
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	SO4	Sulfate	44.8	mg/L	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	CL	Chloride	76.5	mg/L	1.00
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	TSS	Tot. Suspended Solids	10	mg/L	2
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	HARD	Hardness as CaCO3	196	mg/l	
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	COD	COD	29	mg/L	
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	606	uS/cm	
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	TEMP_FLD	Temperature (Field) Celsius	26.84	Deg C	
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	PH_FLD	pH (Field)	7.35	S.U.	
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	DO_FLD	Dissolved Oxygen (field) mg/L	4.79	mg/l	
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	585	uS/cm	
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	\$ICP	Antimony	0.00	mg/L	0.006
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	\$ICP	Arsenic	0.0236	mg/L	0.012
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	\$ICP	Barium	0.0340	mg/L	0.003
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	\$ICP	Calcium	55.7	mg/L	0.066
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	\$ICP	Chromium	0.00	mg/L	0.006
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	\$ICP	Copper	0.00	mg/L	0.006
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	\$ICP	Iron	0.101	mg/L	0.018
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	\$ICP	Lead	0.0102	mg/L	0.006
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	\$ICP	Magnesium	11.3	mg/L	0.021
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	\$ICP	Manganese	0.139	mg/L	0.009
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	\$ICP	Nickel	0.00	mg/L	0.003
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	\$ICP	Selenium	0.0292	mg/L	0.009
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	\$ICP	Silver	0.00	mg/L	0.003
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	\$ICP	Strontium	0.224	mg/L	0.009
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	\$ICP	Thallium	0.0311	mg/L	0.012
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	\$ICP	Tin	0.00	mg/L	0.006
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	\$ICP	Zinc	0.00679	mg/L	0.006
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	PB_FU	Lead by Furnace	0	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	AS_FU	Arsenic by Furnace	.993	ug/L	1.0
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	CU_FU	Copper by Furnace	2.8	ug/L	1
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	NH3	Ammonia as N	0	mg/L	0.5
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	TKN	Total Kjeldahl Nitrogen	0.6561	mg/L	0.5
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	NO2	Nitrite as N	0.0091	mg/l	0.005
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03433	LM51	Little Miami Watershed	51	7/9/2012	11:40	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	MF_CF	Fecal Coliform, Membrane Filter	220	CFU/100mL	
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	E-COLI	E.coli (Colilert)	145	MPN	
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	TDS	Total Dissolved Solids	240	mg/L	
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	SO4	Sulfate	38.8	mg/L	1.00
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	CL	Chloride	73.1	mg/L	1.00
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	TSS	Tot. Suspended Solids	18	mg/L	2
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	SSC	Suspended Sediment Concentration	9.0	mg/L	5.0
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	HARD	Hardness as CaCO3	204	mg/l	
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	COD	COD	5	mg/L	
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	600	uS/cm	
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	TEMP_FLD	Temperature (Field) Celsius	26.48	Deg C	
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	PH_FLD	pH (Field)	7.53	S.U.	
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	DO_FLD	Dissolved Oxygen (field) mg/L	6.96	mg/l	
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	583	uS/cm	
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	\$ICP	Antimony	0.00	mg/L	0.006
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	\$ICP	Barium	0.0284	mg/L	0.003
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	\$ICP	Calcium	53.4	mg/L	0.066
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	\$ICP	Chromium	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	\$ICP	Copper	0.00	mg/L	0.006
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	\$ICP	Iron	0.362	mg/L	0.018
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	\$ICP	Lead	0.00601	mg/L	0.006
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	\$ICP	Magnesium	9.80	mg/L	0.021
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	\$ICP	Manganese	0.113	mg/L	0.009
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	\$ICP	Nickel	0.00	mg/L	0.003
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	\$ICP	Selenium	0.0126	mg/L	0.009
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	\$ICP	Silver	0.00	mg/L	0.003
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	\$ICP	Strontium	0.263	mg/L	0.009
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	\$ICP	Thallium	0.0331	mg/L	0.012
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	\$ICP	Tin	0.00	mg/L	0.006
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	\$ICP	Zinc	0.00894	mg/L	0.006
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	AS_FU	Arsenic by Furnace	.889	ug/L	1.0
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	CU_FU	Copper by Furnace	3.2	ug/L	1
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	NH3	Ammonia as N	0	mg/L	0.5
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	TKN	Total Kjeldahl Nitrogen	0.6708	mg/L	0.5
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	NO2	Nitrite as N	0.0083	mg/l	0.005
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03434	LM50	Little Miami Watershed	50	7/9/2012	12:00	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	MF_CF	Fecal Coliform, Membrane Filter	107	CFU/100mL	
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	E-COLI	E.coli (Colilert)	101	MPN	
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	TDS	Total Dissolved Solids	520	mg/L	
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	SO4	Sulfate	106	mg/L	1.00
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	CL	Chloride	183	mg/L	1.00
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	TSS	Tot. Suspended Solids	26	mg/L	2
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	SSC	Suspended Sediment Concentration	15.0	mg/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	HARD	Hardness as CaCO3	226	mg/l	
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	COD	COD	75	mg/L	
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1006	uS/cm	
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	TEMP_FLD	Temperature (Field) Celsius	23.29	Deg C	
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	PH_FLD	pH (Field)	7.68	S.U.	
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	DO_FLD	Dissolved Oxygen (field) mg/L	6.44	mg/l	
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	1040	uS/cm	
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	\$ICP	Antimony	0.00	mg/L	0.006
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	\$ICP	Arsenic	0.0136	mg/L	0.012
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	\$ICP	Barium	0.0245	mg/L	0.003
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	\$ICP	Calcium	66.2	mg/L	0.066
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	\$ICP	Chromium	0.00	mg/L	0.006
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	\$ICP	Copper	0.0151	mg/L	0.006
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	\$ICP	Iron	0.223	mg/L	0.018
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	\$ICP	Lead	0.00	mg/L	0.006
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	\$ICP	Magnesium	16.9	mg/L	0.021
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	\$ICP	Manganese	0.0182	mg/L	0.009
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	\$ICP	Nickel	0.00	mg/L	0.003
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	\$ICP	Selenium	0.0292	mg/L	0.009
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	\$ICP	Silver	0.00	mg/L	0.003
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	\$ICP	Strontium	0.248	mg/L	0.009
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	\$ICP	Thallium	0.00	mg/L	0.012
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	\$ICP	Tin	0.00	mg/L	0.006
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	\$ICP	Zinc	0.0488	mg/L	0.006
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	AS_FU	Arsenic by Furnace	1.231	ug/L	1.0
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	CU_FU	Copper by Furnace	16.8	ug/L	1



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	NH3	Ammonia as N	0	mg/L	0.5
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	NO3NO2	Nitrate + Nitrite	25.49	mg/L	0.5
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	TKP	Total Kjeldahl Phosphorus	4.325	mg/L	0.5
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	NO2	Nitrite as N	0.0735	mg/l	0.005
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	NO3	Nitrate as N (calculated)	8.4265	mg/l	
AC03499	LM37	Little Miami Watershed	37	7/10/2012	08:40	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	MF_CF	Fecal Coliform, Membrane Filter	86	CFU/100mL	
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	E-COLI	E.coli (Colilert)	81	MPN	
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	TDS	Total Dissolved Solids	170	mg/L	
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	SO4	Sulfate	43.2	mg/L	1.00
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	CL	Chloride	39.5	mg/L	1.00
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	TSS	Tot. Suspended Solids	34	mg/L	2
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	SSC	Suspended Sediment Concentration	15.0	mg/L	5.0
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	HARD	Hardness as CaCO3	196	mg/l	
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	COD	COD	66	mg/L	
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	477	uS/cm	
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	TEMP_FLD	Temperature (Field) Celsius	25.29	Deg C	
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	PH_FLD	pH (Field)	7.50	S.U.	
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	DO_FLD	Dissolved Oxygen (field) mg/L	6.66	mg/l	
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	474	uS/cm	
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	\$ICP	Antimony	0.00	mg/L	0.006
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	\$ICP	Arsenic	0.00	mg/L	0.012
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	\$ICP	Barium	0.0268	mg/L	0.003
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	\$ICP	Calcium	54.5	mg/L	0.066
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	\$ICP	Chromium	0.00	mg/L	0.006
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	\$ICP	Copper	0.00	mg/L	0.006
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	\$ICP	Iron	0.340	mg/L	0.018

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	\$ICP	Lead	0.0102	mg/L	0.006
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	\$ICP	Magnesium	11.6	mg/L	0.021
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	\$ICP	Manganese	0.0729	mg/L	0.009
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	\$ICP	Nickel	0.00	mg/L	0.003
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	\$ICP	Selenium	0.0151	mg/L	0.009
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	\$ICP	Silver	0.00	mg/L	0.003
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	\$ICP	Strontium	0.177	mg/L	0.009
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	\$ICP	Thallium	0.00	mg/L	0.012
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	\$ICP	Tin	0.00	mg/L	0.006
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	\$ICP	Zinc	0.0112	mg/L	0.006
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	AS_FU	Arsenic by Furnace	1.620	ug/L	1.0
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	CU_FU	Copper by Furnace	3.6	ug/L	1
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	NH3	Ammonia as N	0	mg/L	0.5
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	NO3NO2	Nitrate + Nitrite	4.29	mg/L	0.5
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	TKN	Total Kjeldahl Nitrogen	0.6144	mg/L	0.5
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	TKP	Total Kjeldahl Phosphorus	0.6458	mg/L	0.5
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	NO2	Nitrite as N	0.0197	mg/l	0.005
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	NO3	Nitrate as N (calculated)	4.2703	mg/l	
AC03500	LM32	Little Miami Watershed	32	7/10/2012	09:40	CHLOROPHYLL	Chlorophyll	3.74	mg/m3	1.00
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	79	CFU/100mL	
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	E-COLI	E.coli (Colilert)	179	MPN	
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	TDS	Total Dissolved Solids	200	mg/L	
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	SO4	Sulfate	46.0	mg/L	1.00
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	CL	Chloride	44.3	mg/L	1.00
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	TSS	Tot. Suspended Solids	22	mg/L	2
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	SSC	Suspended Sediment Concentration	12.0	mg/L	5.0
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	HARD	Hardness as CaCO3	196	mg/l	
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	COD	COD	61	mg/L	
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	517	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	25.80	Deg C	
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	PH_FLD	pH (Field)	7.47	S.U.	
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	7.19	mg/l	
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	509	uS/cm	
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	\$ICP	Antimony	0.00	mg/L	0.006
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	\$ICP	Arsenic	0.0231	mg/L	0.012
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	\$ICP	Barium	0.0284	mg/L	0.003
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	\$ICP	Calcium	57.7	mg/L	0.066
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	\$ICP	Chromium	0.00	mg/L	0.006
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	\$ICP	Copper	0.00	mg/L	0.006
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	\$ICP	Iron	0.409	mg/L	0.018
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	\$ICP	Lead	0.00	mg/L	0.006
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	\$ICP	Magnesium	12.3	mg/L	0.021
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	\$ICP	Manganese	0.0914	mg/L	0.009
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	\$ICP	Nickel	0.00	mg/L	0.003
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	\$ICP	Selenium	0.0315	mg/L	0.009
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	\$ICP	Silver	0.00	mg/L	0.003
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	\$ICP	Strontium	0.194	mg/L	0.009
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	\$ICP	Thallium	0.00	mg/L	0.012
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	\$ICP	Tin	0.00	mg/L	0.006
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	\$ICP	Zinc	0.0136	mg/L	0.006
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	PB_FU	Lead by Furnace	0.449	ug/L	0.5
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	AS_FU	Arsenic by Furnace	1.352	ug/L	1.0
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	CU_FU	Copper by Furnace	3.5	ug/L	1
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	NO3NO2	Nitrate + Nitrite	4.44	mg/L	0.5
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	TKN	Total Kjeldahl Nitrogen	0.5446	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	TKP	Total Kjeldahl Phosphorus	1.389	mg/L	0.5
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	NO2	Nitrite as N	0.0220	mg/l	0.005
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	NO3	Nitrate as N (calculated)	4.4180	mg/l	
AC03501	LM34	Little Miami Watershed	34	7/10/2012	10:00	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	MF_CF	Fecal Coliform, Membrane Filter	71	CFU/100mL	
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	E-COLI	E.coli (Colilert)	59	MPN	
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	TDS	Total Dissolved Solids	210	mg/L	
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	SO4	Sulfate	44.8	mg/L	1.00
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	CL	Chloride	44.4	mg/L	1.00
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	TSS	Tot. Suspended Solids	24	mg/L	2
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	SSC	Suspended Sediment Concentration	12.0	mg/L	5.0
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	HARD	Hardness as CaCO3	192	mg/l	
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	COD	COD	63	mg/L	
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	520	uS/cm	
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	TEMP_FLD	Temperature (Field) Celsius	26.18	Deg C	
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	PH_FLD	pH (Field)	7.46	S.U.	
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	DO_FLD	Dissolved Oxygen (field) mg/L	6.44	mg/l	
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	508	uS/cm	
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	\$ICP	Aluminum	0.00	mg/L	0.348
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	\$ICP	Antimony	0.00	mg/L	0.006
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	\$ICP	Arsenic	0.0249	mg/L	0.012
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	\$ICP	Barium	0.0290	mg/L	0.003
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	\$ICP	Calcium	57.6	mg/L	0.066
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	\$ICP	Chromium	0.00	mg/L	0.006
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	\$ICP	Copper	0.00	mg/L	0.006
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	\$ICP	Iron	0.466	mg/L	0.018
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	\$ICP	Lead	0.00	mg/L	0.006
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	\$ICP	Magnesium	12.4	mg/L	0.021
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	\$ICP	Manganese	0.118	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	\$ICP	Nickel	0.00	mg/L	0.003
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	\$ICP	Selenium	0.0601	mg/L	0.009
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	\$ICP	Silver	0.00	mg/L	0.003
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	\$ICP	Strontium	0.189	mg/L	0.009
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	\$ICP	Thallium	0.00	mg/L	0.012
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	\$ICP	Tin	0.00	mg/L	0.006
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	\$ICP	Zinc	0.0160	mg/L	0.006
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	PB_FU	Lead by Furnace	0.711	ug/L	0.5
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	AS_FU	Arsenic by Furnace	1.510	ug/L	1.0
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	CU_FU	Copper by Furnace	3.8	ug/L	1
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	NH3	Ammonia as N	0	mg/L	0.5
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	NO3NO2	Nitrate + Nitrite	4.10	mg/L	0.5
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	TKP	Total Kjeldahl Phosphorus	0.6685	mg/L	0.5
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	NO2	Nitrite as N	0.0281	mg/l	0.005
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	NO3	Nitrate as N (calculated)	4.0719	mg/l	
AC03502	LM36	Little Miami Watershed	36	7/10/2012	10:20	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	MF_CF	Fecal Coliform, Membrane Filter	71	CFU/100mL	
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	E-COLI	E.coli (Colilert)	63	MPN	
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	TDS	Total Dissolved Solids	340	mg/L	
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	SO4	Sulfate	55.0	mg/L	1.00
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	CL	Chloride	105	mg/L	1.00
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	TSS	Tot. Suspended Solids	12	mg/L	2
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	SSC	Suspended Sediment Concentration	9.0	mg/L	5.0
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	HARD	Hardness as CaCO3	284	mg/l	
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	COD	COD	62	mg/L	
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	881	uS/cm	
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	TEMP_FLD	Temperature (Field) Celsius	27.94	Deg C	
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	PH_FLD	pH (Field)	8.09	S.U.	
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	DO_FLD	Dissolved Oxygen (field) mg/L	7.74	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	834	uS/cm	
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	\$ICP	Antimony	0.00	mg/L	0.006
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	\$ICP	Arsenic	0.0382	mg/L	0.012
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	\$ICP	Barium	0.0705	mg/L	0.003
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	\$ICP	Calcium	77.9	mg/L	0.066
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	\$ICP	Chromium	0.00	mg/L	0.006
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	\$ICP	Copper	0.00	mg/L	0.006
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	\$ICP	Iron	0.265	mg/L	0.018
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	\$ICP	Lead	0.0111	mg/L	0.006
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	\$ICP	Magnesium	27.7	mg/L	0.021
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	\$ICP	Manganese	0.0649	mg/L	0.009
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	\$ICP	Nickel	0.00	mg/L	0.003
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	\$ICP	Selenium	0.0559	mg/L	0.009
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	\$ICP	Silver	0.00	mg/L	0.003
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	\$ICP	Strontium	0.388	mg/L	0.009
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	\$ICP	Thallium	0.00	mg/L	0.012
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	\$ICP	Tin	0.00	mg/L	0.006
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	\$ICP	Zinc	0.00803	mg/L	0.006
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	AS_FU	Arsenic by Furnace	1.474	ug/L	1.0
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	CU_FU	Copper by Furnace	3.0	ug/L	1
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	NH3	Ammonia as N	0	mg/L	0.5
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	NO3NO2	Nitrate + Nitrite	1.93	mg/L	0.5
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	TKN	Total Kjeldahl Nitrogen	3.060	mg/L	0.5
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	TKP	Total Kjeldahl Phosphorus	1.861	mg/L	0.5
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	NO2	Nitrite as N	0.0279	mg/l	0.005
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	NO3	Nitrate as N (calculated)	1.9021	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03503	LM11	Little Miami Watershed	11	7/10/2012	10:40	CHLOROPHYLL	Chlorophyll	6.94	mg/m3	1.00
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	MF_CF	Fecal Coliform, Membrane Filter	1400	CFU/100mL	
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	E-COLI	E.coli (Colilert)	2420	MPN	
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	TDS	Total Dissolved Solids	190	mg/L	
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	SO4	Sulfate	31.4	mg/L	1.00
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	CL	Chloride	36.1	mg/L	1.00
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	TSS	Tot. Suspended Solids	38	mg/L	2
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	SSC	Suspended Sediment Concentration	29.0	mg/L	5.0
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	HARD	Hardness as CaCO3	180	mg/l	
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	COD	COD	116	mg/L	
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	420	uS/cm	
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	TEMP_FLD	Temperature (Field) Celsius	23.43	Deg C	
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	PH_FLD	pH (Field)	7.20	S.U.	
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	DO_FLD	Dissolved Oxygen (field) mg/L	2.39	mg/l	
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	433	uS/cm	
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	\$ICP	Aluminum	0.00	mg/L	0.348
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	\$ICP	Antimony	0.00	mg/L	0.006
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	\$ICP	Arsenic	0.00	mg/L	0.012
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	\$ICP	Barium	0.0427	mg/L	0.003
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	\$ICP	Calcium	54.2	mg/L	0.066
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	\$ICP	Chromium	0.00	mg/L	0.006
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	\$ICP	Copper	0.00	mg/L	0.006
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	\$ICP	Iron	0.633	mg/L	0.018
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	\$ICP	Lead	0.00	mg/L	0.006
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	\$ICP	Magnesium	9.60	mg/L	0.021
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	\$ICP	Manganese	0.451	mg/L	0.009
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	\$ICP	Nickel	0.00	mg/L	0.003
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	\$ICP	Selenium	0.0498	mg/L	0.009
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	\$ICP	Silver	0.00	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	\$ICP	Strontium	0.187	mg/L	0.009
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	\$ICP	Thallium	0.00	mg/L	0.012
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	\$ICP	Tin	0.00	mg/L	0.006
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	\$ICP	Zinc	0.00765	mg/L	0.006
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	PB_FU	Lead by Furnace	0.273	ug/L	0.5
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	AS_FU	Arsenic by Furnace	2.656	ug/L	1.0
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	CU_FU	Copper by Furnace	4.7	ug/L	1
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	NH3	Ammonia as N	0	mg/L	0.5
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	TKN	Total Kjeldahl Nitrogen	0.8194	mg/L	0.5
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	NO2	Nitrite as N	0.0074	mg/l	0.005
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03504	LM92	Little Miami Watershed	92	7/10/2012	11:15	CHLOROPHYLL	Chlorophyll	99.3	mg/m3	1.00
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	MF_CF	Fecal Coliform, Membrane Filter	390	CFU/100mL	
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	E-COLI	E.coli (Colilert)	313	MPN	
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	TDS	Total Dissolved Solids	600	mg/L	
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	SO4	Sulfate	75.5	mg/L	25.0
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	CL	Chloride	242	mg/L	5.0
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	TSS	Tot. Suspended Solids	4	mg/L	2
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	HARD	Hardness as CaCO3	202	mg/l	
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	COD	COD	53	mg/L	
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	982	uS/cm	
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	TEMP_FLD	Temperature (Field) Celsius	21.11	Deg C	
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	PH_FLD	pH (Field)	7.90	S.U.	
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	DO_FLD	Dissolved Oxygen (field) mg/L	6.63	mg/l	
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	1061	uS/cm	
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	\$ICP	Aluminum	0.00	mg/L	0.348
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	\$ICP	Antimony	0.00	mg/L	0.006



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	\$ICP	Arsenic	0.0429	mg/L	0.012
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	\$ICP	Barium	0.0654	mg/L	0.003
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	\$ICP	Calcium	115	mg/L	0.066
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	\$ICP	Chromium	0.00	mg/L	0.006
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	\$ICP	Copper	0.00	mg/L	0.006
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	\$ICP	Iron	0.0828	mg/L	0.018
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	\$ICP	Lead	0.00709	mg/L	0.006
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	\$ICP	Magnesium	27.1	mg/L	0.021
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	\$ICP	Manganese	0.0209	mg/L	0.009
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	\$ICP	Nickel	0.00	mg/L	0.003
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	\$ICP	Selenium	0.0416	mg/L	0.009
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	\$ICP	Silver	0.00	mg/L	0.003
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	\$ICP	Strontium	0.388	mg/L	0.009
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	\$ICP	Thallium	0.00	mg/L	0.012
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	\$ICP	Tin	0.00	mg/L	0.006
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	\$ICP	Zinc	0.00	mg/L	0.006
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	AS_FU	Arsenic by Furnace	.607	ug/L	1.0
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	CU_FU	Copper by Furnace	2.0	ug/L	1
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	NH3	Ammonia as N	0	mg/L	0.5
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	NO2	Nitrite as N	0.0034	mg/l	0.005
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03576	LM39	Little Miami Watershed	39	7/11/2012	08:15	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	MF_CF	Fecal Coliform, Membrane Filter	21	CFU/100mL	
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	E-COLI	E.coli (Colilert)	34	MPN	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	TDS	Total Dissolved Solids	680	mg/L	
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	SO4	Sulfate	110	mg/L	25.0
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	CL	Chloride	421	mg/L	5.0
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	TSS	Tot. Suspended Solids	14	mg/L	2
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	HARD	Hardness as CaCO3	270	mg/l	
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	COD	COD	27	mg/L	
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1132	uS/cm	
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	TEMP_FLD	Temperature (Field) Celsius	22.70	Deg C	
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	PH_FLD	pH (Field)	7.22	S.U.	
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	DO_FLD	Dissolved Oxygen (field) mg/L	7.12	mg/l	
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	CONDUCTIVITY	Specific Conductivity (uS/cm)	1187	uS/cm	
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	\$ICP	Aluminum	0.00	mg/L	0.348
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	\$ICP	Antimony	0.00	mg/L	0.006
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	\$ICP	Arsenic	0.0263	mg/L	0.012
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	\$ICP	Barium	0.0486	mg/L	0.003
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	\$ICP	Beryllium	0.00	mg/L	0.009
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	\$ICP	Cadmium	0.00	mg/L	0.012
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	\$ICP	Calcium	78.4	mg/L	0.066
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	\$ICP	Chromium	0.00	mg/L	0.006
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	\$ICP	Cobalt	0.00	mg/L	0.006
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	\$ICP	Copper	0.0164	mg/L	0.006
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	\$ICP	Iron	0.150	mg/L	0.018
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	\$ICP	Lead	0.00603	mg/L	0.006
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	\$ICP	Magnesium	24.8	mg/L	0.021
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	\$ICP	Manganese	0.0127	mg/L	0.009
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	\$ICP	Nickel	0.00	mg/L	0.003
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	\$ICP	Selenium	0.0541	mg/L	0.009
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	\$ICP	Silver	0.00	mg/L	0.003
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	\$ICP	Strontium	0.382	mg/L	0.009
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	\$ICP	Thallium	0.00	mg/L	0.012
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	\$ICP	Tin	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	\$ICP	Vanadium	0.00	mg/L	0.018
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	\$ICP	Zinc	0.0418	mg/L	0.006
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	AS_FU	Arsenic by Furnace	.320	ug/L	1.0
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	CU_FU	Copper by Furnace	17.8	ug/L	1
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	NH3	Ammonia as N	0	mg/L	0.5
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	NO3NO2	Nitrate + Nitrite	15.6	mg/L	0.5
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	TKN	Total Kjeldahl Nitrogen	0.9710	mg/L	0.5
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	TKP	Total Kjeldahl Phosphorus	3.407	mg/L	0.5
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	NO2	Nitrite as N	0.0990	mg/l	0.005
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	NO3	Nitrate as N (calculated)	15.5010	mg/l	
AC03577	LM04	Little Miami Watershed	4	7/11/2012	08:55	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	MF_CF	Fecal Coliform, Membrane Filter	50	CFU/100mL	
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	E-COLI	E.coli (Colilert)	72	MPN	
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	TDS	Total Dissolved Solids	510	mg/L	
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	SO4	Sulfate	52.8	mg/L	12.5
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	CL	Chloride	106	mg/L	1.00
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	TSS	Tot. Suspended Solids	6	mg/L	2
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	SSC	Suspended Sediment Concentration	9.0	mg/L	5.0
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	HARD	Hardness as CaCO3	268	mg/l	
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	COD	COD	2	mg/L	
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	802	uS/cm	
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	TEMP_FLD	Temperature (Field) Celsius	21.30	Deg C	
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	PH_FLD	pH (Field)	8.06	S.U.	
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	DO_FLD	Dissolved Oxygen (field) mg/L	7.46	mg/l	
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	863	uS/cm	
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	\$ICP	Antimony	0.00	mg/L	0.006
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	\$ICP	Arsenic	0.0489	mg/L	0.012
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	\$ICP	Barium	0.0365	mg/L	0.003
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	\$ICP	Beryllium	0.00	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	\$ICP	Calcium	87.1	mg/L	0.066
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	\$ICP	Chromium	0.00	mg/L	0.006
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	\$ICP	Copper	0.00	mg/L	0.006
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	\$ICP	Iron	0.0565	mg/L	0.018
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	\$ICP	Lead	0.00	mg/L	0.006
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	\$ICP	Magnesium	17.2	mg/L	0.021
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	\$ICP	Manganese	0.0240	mg/L	0.009
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	\$ICP	Nickel	0.00	mg/L	0.003
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	\$ICP	Selenium	0.0595	mg/L	0.009
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	\$ICP	Silver	0.00	mg/L	0.003
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	\$ICP	Strontium	0.418	mg/L	0.009
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	\$ICP	Thallium	0.00	mg/L	0.012
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	\$ICP	Tin	0.00	mg/L	0.006
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	\$ICP	Zinc	0.00	mg/L	0.006
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	AS_FU	Arsenic by Furnace	1.493	ug/L	1.0
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	CU_FU	Copper by Furnace	3.0	ug/L	1
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	NH3	Ammonia as N	0	mg/L	0.5
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	NO2	Nitrite as N	0.0076	mg/l	0.005
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03578	LM49	Little Miami Watershed	49	7/11/2012	10:40	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	MF_CF	Fecal Coliform, Membrane Filter	1000	CFU/100mL	
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	E-COLI	E.coli (Colilert)	1203	MPN	
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	TDS	Total Dissolved Solids	470	mg/L	
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	SO4	Sulfate	37.5	mg/L	12.50

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	CL	Chloride	134	mg/L	4.0
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	TSS	Tot. Suspended Solids	12	mg/L	2
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	HARD	Hardness as CaCO3	266	mg/l	
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	COD	COD	58	mg/L	
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	824	uS/cm	
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	TEMP_FLD	Temperature (Field) Celsius	21.27	Deg C	
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	PH_FLD	pH (Field)	7.76	S.U.	
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	CONDUCTIVITY	Specific Conductivity (uS/cm)	887	uS/cm	
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	\$ICP	Aluminum	0.00	mg/L	0.348
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	\$ICP	Antimony	0.00	mg/L	0.006
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	\$ICP	Arsenic	0.0370	mg/L	0.012
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	\$ICP	Barium	0.0451	mg/L	0.003
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	\$ICP	Beryllium	0.00	mg/L	0.009
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	\$ICP	Cadmium	0.00	mg/L	0.012
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	\$ICP	Calcium	87.1	mg/L	0.066
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	\$ICP	Chromium	0.00	mg/L	0.006
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	\$ICP	Cobalt	0.00	mg/L	0.006
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	\$ICP	Copper	0.00	mg/L	0.006
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	\$ICP	Iron	0.160	mg/L	0.018
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	\$ICP	Lead	0.00605	mg/L	0.006
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	\$ICP	Magnesium	15.2	mg/L	0.021
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	\$ICP	Manganese	0.172	mg/L	0.009
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	\$ICP	Nickel	0.00	mg/L	0.003
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	\$ICP	Selenium	0.0376	mg/L	0.009
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	\$ICP	Silver	0.00	mg/L	0.003
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	\$ICP	Strontium	0.444	mg/L	0.009
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	\$ICP	Thallium	0.00	mg/L	0.012
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	\$ICP	Tin	0.00	mg/L	0.006
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	\$ICP	Vanadium	0.00	mg/L	0.018
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	\$ICP	Zinc	0.00	mg/L	0.006
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	AS_FU	Arsenic by Furnace	2.290	ug/L	1.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	CU_FU	Copper by Furnace	3.5	ug/L	1
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	NH3	Ammonia as N	0	mg/L	0.5
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	NO2	Nitrite as N	0.0101	mg/l	0.005
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03579	LM48	Little Miami Watershed	48	7/11/2012	10:55	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	MF_CF	Fecal Coliform, Membrane Filter	1700	CFU/100mL	
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	E-COLI	E.coli (Colilert)	1986	MPN	
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	TDS	Total Dissolved Solids	470	mg/L	
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	SO4	Sulfate	52.5	mg/L	12.50
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	CL	Chloride	103	mg/L	1.00
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	TSS	Tot. Suspended Solids	4	mg/L	2
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	HARD	Hardness as CaCO3	202	mg/l	
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	COD	COD	51	mg/L	
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	830	uS/cm	
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	TEMP_FLD	Temperature (Field) Celsius	20.44	Deg C	
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	PH_FLD	pH (Field)	7.86	S.U.	
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	DO_FLD	Dissolved Oxygen (field) mg/L	5.26	mg/l	
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	909	uS/cm	
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	\$ICP	Aluminum	0.00	mg/L	0.348
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	\$ICP	Antimony	0.00	mg/L	0.006
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	\$ICP	Arsenic	0.00	mg/L	0.012
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	\$ICP	Barium	0.0308	mg/L	0.003
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	\$ICP	Calcium	63.4	mg/L	0.066
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	\$ICP	Chromium	0.00	mg/L	0.006
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	\$ICP	Cobalt	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	\$ICP	Copper	0.00	mg/L	0.006
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	\$ICP	Iron	0.180	mg/L	0.018
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	\$ICP	Lead	0.00770	mg/L	0.006
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	\$ICP	Magnesium	16.7	mg/L	0.021
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	\$ICP	Manganese	0.0977	mg/L	0.009
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	\$ICP	Nickel	0.00	mg/L	0.003
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	\$ICP	Selenium	0.0257	mg/L	0.009
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	\$ICP	Silver	0.00	mg/L	0.003
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	\$ICP	Strontium	0.226	mg/L	0.009
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	\$ICP	Thallium	0.00	mg/L	0.012
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	\$ICP	Tin	0.00	mg/L	0.006
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	\$ICP	Zinc	0.0403	mg/L	0.006
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	AS_FU	Arsenic by Furnace	1.910	ug/L	1.0
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	CU_FU	Copper by Furnace	3.5	ug/L	1
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	NH3	Ammonia as N	0	mg/L	0.5
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	NO3NO2	Nitrate + Nitrite	1.77	mg/L	0.5
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	TKP	Total Kjeldahl Phosphorus	0.7703	mg/L	0.5
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	NO2	Nitrite as N	0.0152	mg/l	0.005
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	NO3	Nitrate as N (calculated)	1.7548	mg/l	
AC03580	LM47	Little Miami Watershed	47	7/11/2012	11:10	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	MF_CF	Fecal Coliform, Membrane Filter	136	CFU/100mL	
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	E-COLI	E.coli (Colilert)	249	MPN	
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	TDS	Total Dissolved Solids	370	mg/L	
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	SO4	Sulfate	51.8	mg/L	12.50
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	CL	Chloride	46.3	mg/L	1.00
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	TSS	Tot. Suspended Solids	20	mg/L	2
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	SSC	Suspended Sediment Concentration	13.0	mg/L	5.0
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	HARD	Hardness as CaCO3	376	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	COD	COD	161	mg/L	
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	524	uS/cm	
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	TEMP_FLD	Temperature (Field) Celsius	26.20	Deg C	
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	PH_FLD	pH (Field)	7.69	S.U.	
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	DO_FLD	Dissolved Oxygen (field) mg/L	6.51	mg/l	
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	512	uS/cm	
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	\$ICP	Antimony	0.00	mg/L	0.006
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	\$ICP	Arsenic	0.0278	mg/L	0.012
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	\$ICP	Barium	0.0285	mg/L	0.003
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	\$ICP	Calcium	58.0	mg/L	0.066
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	\$ICP	Chromium	0.00	mg/L	0.006
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	\$ICP	Copper	0.00	mg/L	0.006
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	\$ICP	Iron	0.440	mg/L	0.018
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	\$ICP	Lead	0.00	mg/L	0.006
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	\$ICP	Magnesium	12.2	mg/L	0.021
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	\$ICP	Manganese	0.0955	mg/L	0.009
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	\$ICP	Nickel	0.00	mg/L	0.003
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	\$ICP	Selenium	0.0408	mg/L	0.009
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	\$ICP	Silver	0.00	mg/L	0.003
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	\$ICP	Strontium	0.194	mg/L	0.009
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	\$ICP	Thallium	0.00	mg/L	0.012
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	\$ICP	Tin	0.00	mg/L	0.006
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	\$ICP	Zinc	0.00958	mg/L	0.006
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	AS_FU	Arsenic by Furnace	1.852	ug/L	1.0
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	CU_FU	Copper by Furnace	3.6	ug/L	1
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	NH3	Ammonia as N	0	mg/L	0.5



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	NO3NO2	Nitrate + Nitrite	4.62	mg/L	0.5
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	TKN	Total Kjeldahl Nitrogen	0.7501	mg/L	0.5
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	TKP	Total Kjeldahl Phosphorus	0.7374	mg/L	0.5
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	NO2	Nitrite as N	0.0216	mg/l	0.005
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	NO3	Nitrate as N (calculated)	4.5984	mg/l	
AC03581	LM35	Little Miami Watershed	35	7/11/2012	11:40	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	MF_CF	Fecal Coliform, Membrane Filter	240	CFU/100mL	
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	E-COLI	E.coli (Colilert)	272	MPN	
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	TDS	Total Dissolved Solids	650	mg/L	
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	SO4	Sulfate	152	mg/L	25.0
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	CL	Chloride	210	mg/L	5.0
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	TSS	Tot. Suspended Solids	16	mg/L	2
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	HARD	Hardness as CaCO3	284	mg/l	
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	COD	COD	70	mg/L	
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1088	uS/cm	
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	TEMP_FLD	Temperature (Field) Celsius	23.20	Deg C	
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	PH_FLD	pH (Field)	7.78	S.U.	
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	DO_FLD	Dissolved Oxygen (field) mg/L	2.04	mg/l	
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	1127	uS/cm	
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	\$ICP	Antimony	0.00	mg/L	0.006
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	\$ICP	Arsenic	0.117	mg/L	0.012
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	\$ICP	Barium	0.0780	mg/L	0.003
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	\$ICP	Calcium	64.5	mg/L	0.066
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	\$ICP	Chromium	0.00	mg/L	0.006
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	\$ICP	Copper	0.00	mg/L	0.006
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	\$ICP	Iron	0.144	mg/L	0.018
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	\$ICP	Lead	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	\$ICP	Magnesium	32.8	mg/L	0.021
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	\$ICP	Manganese	0.0379	mg/L	0.009
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	\$ICP	Nickel	0.00	mg/L	0.003
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	\$ICP	Selenium	0.00	mg/L	0.009
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	\$ICP	Silver	0.00	mg/L	0.003
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	\$ICP	Strontium	0.416	mg/L	0.009
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	\$ICP	Thallium	0.00	mg/L	0.012
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	\$ICP	Tin	0.00	mg/L	0.006
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	\$ICP	Zinc	0.00669	mg/L	0.006
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	AS_FU	Arsenic by Furnace	131.4	ug/L	1.0
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	CU_FU	Copper by Furnace	7.8	ug/L	1
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	NH3	Ammonia as N	0	mg/L	0.5
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	TKN	Total Kjeldahl Nitrogen	0.5485	mg/L	0.5
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	NO2	Nitrite as N	0.0093	mg/l	0.005
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03582	LM72	Little Miami Watershed	72	7/11/2012	12:40	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	TSS	Tot. Suspended Solids	18	mg/L	2
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	COD	COD	37	mg/L	
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	TDS	Total Dissolved Solids	480	mg/L	
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	CBOD	Carbonaceous Biochemical Oxygen Demand	4	mg/L	2
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	MF_CF	Fecal Coliform, Membrane Filter	29	CFU/100mL	
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Bromochloromethane	50.0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Chloromethane	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Vinyl Chloride	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Bromomethane	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Chloroethane	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Acrolein	0	ug/L	100.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Acrylonitrile	0	ug/L	100.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Methylene Chloride	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Chloroform	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	1,2-Dichloroethane-d4	59.2	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Benzene	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Trichloroethene	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Bromodichloromethane	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Dibromochloromethane	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Bromoform	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Tetrachloroethene	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Toluene	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Toluene-d8	52.3	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Chlorobenzene	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Ethylbenzene	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Bromofluorobenzene	54.1	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	2-Propanone	0	ug/L	60

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	2-Butanone	0	ug/L	60
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	Tetrahydrofuran	0	ug/L	
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	2-chloroethoxy ethene	0	ug/L	
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$624	TOTAL AMOUNT	358	ug/L	
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	NH3	Ammonia as N	0	mg/L	0.5
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	NO3NO2	Nitrate + Nitrite	1.3669	mg/L	0.5
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	TKN	Total Kjeldahl Nitrogen	0.8279	mg/L	0.5
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	O&G	O&G Total	0.38	mg/L	5
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	CN	Cyanide	0.0000	mg/L	0.005
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	CN_A	Cyanide Amenable	AE	mg/L	0.005
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	CN_F	Cyanide Free	0.0000	mg/L	0.005
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	pyridine	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	2-Fluorophenol	53.9	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	aniline	0	ug/L	6.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Phenol-d6	39.0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Phenol	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	2-Chlorophenol	0	ug/L	6.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	n-decane	0	ug/L	6.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	o-cresol	0	ug/L	6.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	acetophenone	0	ug/L	6.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Hexachloroethane	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Nitrobenzene-d5	75.6	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	p-cresol	0	ug/L	6.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Nitrobenzene	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Isophorone	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Decafluorobiphenyl	68.7	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	2-Nitrophenol	0	ug/L	6.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Naphthalene	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	1-Fluoronaphthalene	71.0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	alpha terpineol	0	ug/L	6.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Dimethyl phthalate	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Acenaphthylene	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Acenaphthene	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	4-Nitrophenol	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Diethyl phthalate	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Fluorene	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	2,4,6-Tribromophenol	86.3	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Hexachlorobenzene	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Pentachlorophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	n-octadecane	0	ug/L	6.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Phenanthrene	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Anthracene	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	carbazole	0	ug/L	6.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Fluoranthene	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Chrysene-d12	50.0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Benzidine	0	ug/L	6.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Pyrene	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Chrysene	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Perylene-D12	50.0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Hexachloroethane	0	ug/L	
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	2,3-Dichloroaniline	0	ug/L	
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Diethylphthalate	0	ug/L	
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Benzo[b]fluoranthene	0	ug/L	
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Benzo[k]fluoranthene	0	ug/L	
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	Benzo[ghi]perylene	0	ug/L	
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$625	TOTAL AMOUNT	695	ug/L	
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$ICP	Aluminum	0.00	mg/L	0.348

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$ICP	Antimony	0.00	mg/L	0.006
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$ICP	Arsenic	0.0369	mg/L	0.012
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$ICP	Barium	0.0700	mg/L	0.003
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$ICP	Calcium	79.2	mg/L	0.066
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$ICP	Chromium	0.00	mg/L	0.006
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$ICP	Copper	0.00	mg/L	0.006
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$ICP	Iron	0.274	mg/L	0.018
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$ICP	Lead	0.00712	mg/L	0.006
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$ICP	Magnesium	26.9	mg/L	0.021
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$ICP	Manganese	0.0869	mg/L	0.009
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$ICP	Nickel	0.00	mg/L	0.003
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$ICP	Selenium	0.0570	mg/L	0.009
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$ICP	Silver	0.00	mg/L	0.003
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$ICP	Strontium	0.375	mg/L	0.009
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$ICP	Thallium	0.00	mg/L	0.012
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$ICP	Tin	0.00	mg/L	0.006
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	\$ICP	Zinc	0.00	mg/L	0.006
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	HARD	Hardness as CaCO3	300	mg/l	
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	HG1631	Mercury (Low Level)	1.50	ng/L	0.5
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	E-COLI	E.coli (Colilert)	46	MPN	
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	SSC	Suspended Sediment Concentration	11.0	mg/L	5.0
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	CL	Chloride	99.2	mg/L	1.00
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	SO4	Sulfate	60.5	mg/L	1.00
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	CHLOROPHYLL	Chlorophyll	19.2	mg/m3	1.00
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	NO2	Nitrite as N	0.0281	mg/l	0.005
AC03583	3261-01	Little Miami River	1 (LM17)	7/11/2012	09:45	NO3	Nitrate as N (calculated)	1.3388	mg/l	
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	TSS	Tot. Suspended Solids	8	mg/L	2
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	COD	COD	7	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	TDS	Total Dissolved Solids	450	mg/L	
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	CBOD	Carbonaceous Biochemical Oxygen Demand	3	mg/L	2
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	MF_CF	Fecal Coliform, Membrane Filter	50	CFU/100mL	
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Bromochloromethane	50.0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Chloromethane	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Vinyl Chloride	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Bromomethane	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Chloroethane	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Acrolein	0	ug/L	100.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Acrylonitrile	0	ug/L	100.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Methylene Chloride	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Chloroform	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	1,2-Dichloroethane-d4	61.6	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Benzene	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Trichloroethene	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Bromodichloromethane	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Dibromochloromethane	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Bromoform	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Tetrachloroethene	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Toluene	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Toluene-d8	53.7	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Chlorobenzene	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Ethylbenzene	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Bromofluorobenzene	54.5	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	2-Propanone	0	ug/L	60
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	2-Butanone	0	ug/L	60
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	Tetrahydrofuran	0	ug/L	
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	2-chloroethoxy ethene	0	ug/L	
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$624	TOTAL AMOUNT	362	ug/L	
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	NH3	Ammonia as N	0	mg/L	0.5
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	NO3NO2	Nitrate + Nitrite	1.27	mg/L	0.5
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	TKN	Total Kjeldahl Nitrogen	0.6741	mg/L	0.5
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	O&G	O&G Total	0	mg/L	5
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	CN	Cyanide	0.0000	mg/L	0.005
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	CN_A	Cyanide Amenable	AE	mg/L	0.005
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	CN_F	Cyanide Free	0.0000	mg/L	0.005
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	pyridine	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	2-Fluorophenol	52.2	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	aniline	0	ug/L	6.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Phenol-d6	36.5	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Phenol	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	2-Chlorophenol	0	ug/L	6.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	n-decane	0	ug/L	6.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	o-cresol	0	ug/L	6.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	acetophenone	0	ug/L	6.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Hexachloroethane	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Nitrobenzene-d5	75.0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	p-cresol	0	ug/L	6.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Nitrobenzene	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Isophorone	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Decafluorobiphenyl	67.5	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	2-Nitrophenol	0	ug/L	6.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Naphthalene	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	1-Fluoronaphthalene	66.4	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	alpha terpineol	0	ug/L	6.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Dimethyl phthalate	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Acenaphthylene	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Acenaphthene	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	4-Nitrophenol	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Diethyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Fluorene	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	2,4,6-Tribromophenol	84.1	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Hexachlorobenzene	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Pentachlorophenol	0	ug/L	6.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	n-octadecane	0	ug/L	6.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Phenanthrene	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Anthracene	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	carbazole	0	ug/L	6.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Fluoranthene	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Chrysene-d12	50.0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Benzidine	0	ug/L	6.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Pyrene	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Chrysene	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Perylene-D12	50.0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Hexachloroethane	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	2,3-Dichloroaniline	0	ug/L	
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Diethylphthalate	0	ug/L	
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Benzo[b]fluoranthene	0	ug/L	
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Benzo[k]fluoranthene	0	ug/L	
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	Benzo[ghi]perylene	0	ug/L	
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$625	TOTAL AMOUNT	682	ug/L	
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$ICP	Aluminum	0.00	mg/L	0.348
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$ICP	Antimony	0.00	mg/L	0.006
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$ICP	Arsenic	0.0218	mg/L	0.012
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$ICP	Barium	0.0704	mg/L	0.003
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$ICP	Beryllium	0.00	mg/L	0.009
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$ICP	Cadmium	0.00	mg/L	0.012
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$ICP	Calcium	82.7	mg/L	0.066
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$ICP	Chromium	0.00	mg/L	0.006
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$ICP	Cobalt	0.00	mg/L	0.006
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$ICP	Copper	0.00	mg/L	0.006
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$ICP	Iron	0.247	mg/L	0.018
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$ICP	Lead	0.00	mg/L	0.006
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$ICP	Magnesium	28.1	mg/L	0.021
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$ICP	Manganese	0.141	mg/L	0.009
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$ICP	Nickel	0.00	mg/L	0.003
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$ICP	Selenium	0.0815	mg/L	0.009
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$ICP	Silver	0.00	mg/L	0.003
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$ICP	Strontium	0.381	mg/L	0.009
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$ICP	Thallium	0.00	mg/L	0.012
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$ICP	Tin	0.00	mg/L	0.006
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$ICP	Vanadium	0.00	mg/L	0.018
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	\$ICP	Zinc	0.00	mg/L	0.006
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	HARD	Hardness as CaCO3	310	mg/l	
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	HG1631	Mercury (Low Level)	1.43	ng/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	E-COLI	E.coli (Colilert)	37	MPN	
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	SSC	Suspended Sediment Concentration	7.0	mg/L	5.0
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	CL	Chloride	106	mg/L	1.00
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	SO4	Sulfate	58.0	mg/L	1.00
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	CHLOROPHYLL	Chlorophyll	11.2	mg/m3	1.00
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	NO2	Nitrite as N	0.0307	mg/l	0.005
AC03584	3261-02	Little Miami River	2 (LM16)	7/11/2012	10:05	NO3	Nitrate as N (calculated)	1.2393	mg/l	
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	TSS	Tot. Suspended Solids	22	mg/L	2
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	COD	COD	5	mg/L	
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	TDS	Total Dissolved Solids	430	mg/L	
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	CBOD	Carbonaceous Biochemical Oxygen Demand	4	mg/L	2
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	MF_CF	Fecal Coliform, Membrane Filter	57	CFU/100mL	
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Bromochloromethane	50.0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Chloromethane	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Vinyl Chloride	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Bromomethane	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Chloroethane	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Acrolein	0	ug/L	100.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Acrylonitrile	0	ug/L	100.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Methylene Chloride	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Chloroform	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	1,2-Dichloroethane-d4	61.4	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Benzene	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Trichloroethene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Bromodichloromethane	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Dibromochloromethane	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Bromoform	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Tetrachloroethene	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Toluene	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Toluene-d8	52.9	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Chlorobenzene	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Ethylbenzene	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Bromofluorobenzene	54.8	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	2-Propanone	0	ug/L	60
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	2-Butanone	0	ug/L	60
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	Tetrahydrofuran	0	ug/L	
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	2-chloroethoxy ethene	0	ug/L	
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$624	TOTAL AMOUNT	355	ug/L	
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	NH3	Ammonia as N	0	mg/L	0.5
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	NO3NO2	Nitrate + Nitrite	1.99	mg/L	0.5
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	TKN	Total Kjeldahl Nitrogen	0.7060	mg/L	0.5
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	TKP	Total Kjeldahl Phosphorus	0.5223	mg/L	0.5
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	O&G	O&G Total	0.63	mg/L	5
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	CN	Cyanide	0.0031	mg/L	0.005
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	CN_A	Cyanide Amenable	AE	mg/L	0.005
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	CN_F	Cyanide Free	0.0000	mg/L	0.005
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	pyridine	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	2-Fluorophenol	46.1	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	aniline	0	ug/L	6.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Phenol-d6	33.0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Phenol	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	2-Chlorophenol	0	ug/L	6.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	n-decane	0	ug/L	6.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	o-cresol	0	ug/L	6.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	acetophenone	0	ug/L	6.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Hexachloroethane	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Nitrobenzene-d5	72.9	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	p-cresol	0	ug/L	6.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Nitrobenzene	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Isophorone	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Decafluorobiphenyl	66.1	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	2-Nitrophenol	0	ug/L	6.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Naphthalene	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	1-Fluoronaphthalene	65.7	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	alpha terpineol	0	ug/L	6.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	2,3 dichloroaniline	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Dimethyl phthalate	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Acenaphthylene	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Acenaphthene	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	4-Nitrophenol	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Diethyl phthalate	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Fluorene	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	2,4,6-Tribromophenol	75.7	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Hexachlorobenzene	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Pentachlorophenol	0	ug/L	6.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	n-octadecane	0	ug/L	6.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Phenanthrene	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Anthracene	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	carbazole	0	ug/L	6.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Fluoranthene	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Chrysene-d12	50.0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Benzidine	0	ug/L	6.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Pyrene	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Chrysene	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Perylene-D12	50.0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Hexachloroethane	0	ug/L	
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	2,3-Dichloroaniline	0	ug/L	
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Diethylphthalate	0	ug/L	
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Benzo[b]fluoranthene	0	ug/L	
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Benzo[k]fluoranthene	0	ug/L	
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	Benzo[ghi]perylene	0	ug/L	
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$625	TOTAL AMOUNT	660	ug/L	
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$ICP	Aluminum	0.00	mg/L	0.348
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$ICP	Antimony	0.00	mg/L	0.006
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$ICP	Arsenic	0.0296	mg/L	0.012
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$ICP	Barium	0.0673	mg/L	0.003
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$ICP	Calcium	74.4	mg/L	0.066
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$ICP	Chromium	0.00	mg/L	0.006
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$ICP	Copper	0.00	mg/L	0.006
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$ICP	Iron	0.467	mg/L	0.018
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$ICP	Lead	0.00	mg/L	0.006
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$ICP	Magnesium	26.0	mg/L	0.021
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$ICP	Manganese	0.0714	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$ICP	Nickel	0.00	mg/L	0.003
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$ICP	Selenium	0.0693	mg/L	0.009
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$ICP	Silver	0.00	mg/L	0.003
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$ICP	Strontium	0.358	mg/L	0.009
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$ICP	Thallium	0.0343	mg/L	0.012
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$ICP	Tin	0.00	mg/L	0.006
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	\$ICP	Zinc	0.00	mg/L	0.006
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	HARD	Hardness as CaCO3	282	mg/l	
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	HG1631	Mercury (Low Level)	2.45	ng/L	0.5
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	E-COLI	E.coli (Colilert)	40	MPN	
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	SSC	Suspended Sediment Concentration	18.0	mg/L	5.0
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	CL	Chloride	97.8	mg/L	1.00
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	SO4	Sulfate	54.5	mg/L	1.00
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	CHLOROPHYLL	Chlorophyll	13.9	mg/m3	1.00
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	NO2	Nitrite as N	0.0220	mg/l	0.005
AC03585	3261-04	Little Miami River	4 (LM12)	7/11/2012	10:45	NO3	Nitrate as N (calculated)	1.9680	mg/l	
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	TSS	Tot. Suspended Solids	20	mg/L	2
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	COD	COD	5	mg/L	
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	TDS	Total Dissolved Solids	520	mg/L	
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	CBOD	Carbonaceous Biochemical Oxygen Demand	3	mg/L	2
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	MF_CF	Fecal Coliform, Membrane Filter	57	CFU/100mL	
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624	Bromochloromethane	50.0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624	Chloromethane	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624	Vinyl Chloride	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624	Bromomethane	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624	Chloroethane	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624	Acrolein	0	ug/L	100.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624	Acrylonitrile	0	ug/L	100.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624	Methylene Chloride	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		Chloroform	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		1,2-Dichloroethane-d4	63.0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		Benzene	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		Trichloroethene	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		Bromodichloromethane	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		Dibromochloromethane	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		Bromoform	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		Tetrachloroethene	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		Toluene	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		Toluene-d8	52.6	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		Chlorobenzene	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		Ethylbenzene	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		Bromofluorobenzene	52.7	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		2-Propanone	0	ug/L	60
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		2-Butanone	0	ug/L	60
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		Tetrahydrofuran	0	ug/L	
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624		2-chloroethoxy ethene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$624	TOTAL AMOUNT	352	ug/L	
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	NH3	Ammonia as N	0	mg/L	0.5
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	NO3NO2	Nitrate + Nitrite	1.62	mg/L	0.5
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	TKN	Total Kjeldahl Nitrogen	0.6427	mg/L	0.5
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	O&G	O&G Total	1.2	mg/L	5
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	CN	Cyanide	0.0038	mg/L	0.005
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	CN_A	Cyanide Amenable	.0017	mg/L	0.005
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	CN_F	Cyanide Free	0.0000	mg/L	0.005
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	pyridine	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	2-Fluorophenol	45.9	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	aniline	0	ug/L	6.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Phenol-d6	31.9	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Phenol	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	2-Chlorophenol	0	ug/L	6.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	n-decane	0	ug/L	6.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	o-cresol	0	ug/L	6.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	acetophenone	0	ug/L	6.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Hexachloroethane	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Nitrobenzene-d5	65.2	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	p-cresol	0	ug/L	6.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Nitrobenzene	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Isophorone	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Decafluorobiphenyl	55.1	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	2-Nitrophenol	0	ug/L	6.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		Naphthalene	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		1-Fluoronaphthalene	60.1	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		alpha terpineol	0	ug/L	6.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		Dimethyl phthalate	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		Acenaphthylene	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		Acenaphthene	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		4-Nitrophenol	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		Diethyl phthalate	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		Fluorene	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		2,4,6-Tribromophenol	73.1	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		Hexachlorobenzene	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		Pentachlorophenol	0	ug/L	6.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		n-octadecane	0	ug/L	6.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		Phenanthrene	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625		Anthracene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	carbazole	0	ug/L	6.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Fluoranthene	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Chrysene-d12	50.0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Benzdine	0	ug/L	6.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Pyrene	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Chrysene	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Perylene-D12	50.0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Hexachloroethane	0	ug/L	
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	2,3-Dichloroaniline	0	ug/L	
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Diethylphthalate	0	ug/L	
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Benzo[b]fluoranthene	0	ug/L	
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Benzo[k]fluoranthene	0	ug/L	
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	Benzo[ghi]perylene	0	ug/L	
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$625	TOTAL AMOUNT	631	ug/L	
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$ICP	Aluminum	0.00	mg/L	0.348
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$ICP	Antimony	0.00	mg/L	0.006
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$ICP	Arsenic	0.0268	mg/L	0.012
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$ICP	Barium	0.0777	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$ICP	Calcium	78.6	mg/L	0.066
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$ICP	Chromium	0.00	mg/L	0.006
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$ICP	Copper	0.00	mg/L	0.006
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$ICP	Iron	0.331	mg/L	0.018
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$ICP	Lead	0.00762	mg/L	0.006
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$ICP	Magnesium	31.0	mg/L	0.021
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$ICP	Manganese	0.0520	mg/L	0.009
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$ICP	Nickel	0.00	mg/L	0.003
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$ICP	Selenium	0.0466	mg/L	0.009
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$ICP	Silver	0.00	mg/L	0.003
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$ICP	Strontium	0.428	mg/L	0.009
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$ICP	Thallium	0.0236	mg/L	0.012
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$ICP	Tin	0.00	mg/L	0.006
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	\$ICP	Zinc	0.00696	mg/L	0.006
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	HARD	Hardness as CaCO3	310	mg/l	
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	HG1631	Mercury (Low Level)	1.64	ng/L	0.5
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	E-COLI	E.coli (Colilert)	56	MPN	
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	SSC	Suspended Sediment Concentration	11.0	mg/L	5.0
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	CL	Chloride	124	mg/L	1.00
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	SO4	Sulfate	60.0	mg/L	1.00
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	CHLOROPHYLL	Chlorophyll	9.61	mg/m3	1.00
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	NO2	Nitrite as N	0.0246	mg/l	0.005
AC03586	3261-05	Little Miami River	5 (LM18)	7/11/2012	11:20	NO3	Nitrate as N (calculated)	1.5954	mg/l	
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	TSS	Tot. Suspended Solids	14	mg/L	2
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	COD	COD	7	mg/L	
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	TDS	Total Dissolved Solids	530	mg/L	
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	CBOD	Carbonaceous Biochemical Oxygen Demand	3	mg/L	2
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	MF_CF	Fecal Coliform, Membrane Filter	71	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Bromochloromethane	50.0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Chloromethane	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Vinyl Chloride	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Bromomethane	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Chloroethane	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Acrolein	0	ug/L	100.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Acrylonitrile	0	ug/L	100.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Methylene Chloride	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Chloroform	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	1,2-Dichloroethane-d4	61.0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Benzene	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Trichloroethene	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Bromodichloromethane	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Dibromochloromethane	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Bromoform	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Tetrachloroethene	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Toluene	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Toluene-d8	52.6	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Chlorobenzene	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Ethylbenzene	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Bromofluorobenzene	52.7	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	2-Propanone	0	ug/L	60
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	2-Butanone	0	ug/L	60
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	Tetrahydrofuran	0	ug/L	
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	2-chloroethoxy ethene	0	ug/L	
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$624	TOTAL AMOUNT	346	ug/L	
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	NH3	Ammonia as N	0	mg/L	0.5
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	NO3NO2	Nitrate + Nitrite	1.79	mg/L	0.5
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	TKN	Total Kjeldahl Nitrogen	0.6170	mg/L	0.5
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	O&G	O&G Total	0	mg/L	5
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	CN	Cyanide	0.0010	mg/L	0.005
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	CN_A	Cyanide Amenable	AE	mg/L	0.005
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	CN_F	Cyanide Free	0.0000	mg/L	0.005
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	pyridine	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	2-Fluorophenol	49.1	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	aniline	0	ug/L	6.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Phenol-d6	36.0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Phenol	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	2-Chlorophenol	0	ug/L	6.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	n-decane	0	ug/L	6.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	o-cresol	0	ug/L	6.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	acetophenone	0	ug/L	6.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		Hexachloroethane	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		Nitrobenzene-d5	72.5	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		p-cresol	0	ug/L	6.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		Nitrobenzene	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		Isophorone	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		Decafluorobiphenyl	64.8	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		2-Nitrophenol	0	ug/L	6.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		Naphthalene	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		1-Fluoronaphthalene	63.1	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		alpha terpineol	0	ug/L	6.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		Dimethyl phthalate	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		Acenaphthylene	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		Acenaphthene	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		4-Nitrophenol	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		Diethyl phthalate	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		Fluorene	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625		Phenanthrene-D10	50.0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	2,4,6-Tribromophenol	85.8	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Hexachlorobenzene	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Pentachlorophenol	0	ug/L	6.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	n-octadecane	0	ug/L	6.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Phenanthrene	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Anthracene	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	carbazole	0	ug/L	6.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Fluoranthene	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Chrysene-d12	50.0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Benzidine	0	ug/L	6.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Pyrene	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Chrysene	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Perylene-D12	50.0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Hexachloroethane	0	ug/L	
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	2,3-Dichloroaniline	0	ug/L	
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Diethylphthalate	0	ug/L	
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Benzo[b]fluoranthene	0	ug/L	
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Benzo[k]fluoranthene	0	ug/L	
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	Benzo[ghi]perylene	0	ug/L	
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$625	TOTAL AMOUNT	671	ug/L	
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$ICP	Aluminum	0.00	mg/L	0.348
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$ICP	Antimony	0.00	mg/L	0.006
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$ICP	Arsenic	0.0247	mg/L	0.012
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$ICP	Barium	0.0746	mg/L	0.003
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$ICP	Beryllium	0.00	mg/L	0.009
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$ICP	Cadmium	0.00	mg/L	0.012
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$ICP	Calcium	76.2	mg/L	0.066
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$ICP	Chromium	0.00	mg/L	0.006
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$ICP	Cobalt	0.00	mg/L	0.006
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$ICP	Copper	0.00	mg/L	0.006
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$ICP	Iron	0.402	mg/L	0.018
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$ICP	Lead	0.00809	mg/L	0.006
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$ICP	Magnesium	30.5	mg/L	0.021
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$ICP	Manganese	0.0563	mg/L	0.009
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$ICP	Nickel	0.00	mg/L	0.003
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$ICP	Selenium	0.0746	mg/L	0.009
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$ICP	Silver	0.00	mg/L	0.003
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$ICP	Strontium	0.424	mg/L	0.009
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$ICP	Thallium	0.00	mg/L	0.012
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$ICP	Tin	0.00	mg/L	0.006
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$ICP	Vanadium	0.00	mg/L	0.018
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	\$ICP	Zinc	0.00764	mg/L	0.006
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	HARD	Hardness as CaCO3	296	mg/l	
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	HG1631	Mercury (Low Level)	1.83	ng/L	0.5
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	E-COLI	E.coli (Colilert)	91	MPN	
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	SSC	Suspended Sediment Concentration	13.0	mg/L	5.0
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	BOD	Biochemical Oxygen Demand	4	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	CL	Chloride	107	mg/L	1.00
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	SO4	Sulfate	58.8	mg/L	1.00
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	CHLOROPHYLL	Chlorophyll	13.4	mg/m3	1.00
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	NO2	Nitrite as N	0.0234	mg/l	0.005
AC03587	3261-06	Little Miami River	6 (LM08)	7/11/2012	11:35	NO3	Nitrate as N (calculated)	1.7666	mg/l	
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	TSS	Tot. Suspended Solids	12	mg/L	2
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	COD	COD	5	mg/L	
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	TDS	Total Dissolved Solids	520	mg/L	
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	CBOD	Carbonaceous Biochemical Oxygen Demand	3	mg/L	2
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	MF_CF	Fecal Coliform, Membrane Filter	14	CFU/100mL	
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Bromochloromethane	50.0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Chloromethane	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Vinyl Chloride	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Bromomethane	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Chloroethane	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Acrolein	0	ug/L	100.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Acrylonitrile	0	ug/L	100.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Methylene Chloride	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Chloroform	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	1,2-Dichloroethane-d4	63.1	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Benzene	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Trichloroethene	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Bromodichloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Dibromochloromethane	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Bromoform	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Tetrachloroethene	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Toluene	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Toluene-d8	52.7	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Chlorobenzene	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Ethylbenzene	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Bromofluorobenzene	52.9	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	2-Propanone	0	ug/L	60
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	2-Butanone	0	ug/L	60
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	Tetrahydrofuran	0	ug/L	
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	2-chloroethoxy ethene	0	ug/L	
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$624	TOTAL AMOUNT	350	ug/L	
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	NH3	Ammonia as N	0	mg/L	0.5
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	NO3NO2	Nitrate + Nitrite	1.91	mg/L	0.5
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	TKN	Total Kjeldahl Nitrogen	0.7416	mg/L	0.5
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	O&G	O&G Total	0.75	mg/L	5
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	CN	Cyanide	.0041	mg/L	0.005
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	CN_A	Cyanide Amenable	0.0020	mg/L	0.005
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	CN_F	Cyanide Free	0.0000	mg/L	0.005
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	pyridine	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	2-Fluorophenol	47.5	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	aniline	0	ug/L	6.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	Phenol-d6	34.8	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	Phenol	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	2-Chlorophenol	0	ug/L	6.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	n-decane	0	ug/L	6.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	o-cresol	0	ug/L	6.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	acetophenone	0	ug/L	6.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	Hexachloroethane	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	Nitrobenzene-d5	71.7	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	p-cresol	0	ug/L	6.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	Nitrobenzene	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	Isophorone	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	Decafluorobiphenyl	68.0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	2-Nitrophenol	0	ug/L	6.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	Naphthalene	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	1-Fluoronaphthalene	69.0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	alpha terpineol	0	ug/L	6.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625	Dimethyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Acenaphthylene	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Acenaphthene	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		4-Nitrophenol	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Diethyl phthalate	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Fluorene	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		2,4,6-Tribromophenol	83.1	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Hexachlorobenzene	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Pentachlorophenol	0	ug/L	6.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		n-octadecane	0	ug/L	6.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Phenanthrene	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Anthracene	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		carbazole	0	ug/L	6.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Fluoranthene	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Chrysene-d12	50.0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Benzidine	0	ug/L	6.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Pyrene	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Chrysene	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Perylene-D12	50.0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Hexachloroethane	0	ug/L	
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		2,3-Dichloroaniline	0	ug/L	
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Diethylphthalate	0	ug/L	
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Benzo[b]fluoranthene	0	ug/L	
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Benzo[k]fluoranthene	0	ug/L	
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		Benzo[ghi]perylene	0	ug/L	
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$625		TOTAL AMOUNT	674	ug/L	
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$ICP		Aluminum	0.00	mg/L	0.348
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$ICP		Antimony	0.00	mg/L	0.006
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$ICP		Arsenic	0.0286	mg/L	0.012
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$ICP		Barium	0.0800	mg/L	0.003
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$ICP		Beryllium	0.00	mg/L	0.009
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$ICP		Cadmium	0.00	mg/L	0.012
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$ICP		Calcium	79.1	mg/L	0.066
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$ICP		Chromium	0.00	mg/L	0.006
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$ICP		Cobalt	0.00	mg/L	0.006
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$ICP		Copper	0.00	mg/L	0.006
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$ICP		Iron	0.396	mg/L	0.018
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$ICP		Lead	0.00	mg/L	0.006
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$ICP		Magnesium	31.8	mg/L	0.021
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$ICP		Manganese	0.0537	mg/L	0.009
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$ICP		Nickel	0.00	mg/L	0.003
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$ICP		Selenium	0.0811	mg/L	0.009
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$ICP		Silver	0.00	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$ICP	Strontium	0.449	mg/L	0.009
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$ICP	Thallium	0.00	mg/L	0.012
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$ICP	Tin	0.00	mg/L	0.006
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	\$ICP	Zinc	0.00754	mg/L	0.006
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	HARD	Hardness as CaCO3	296	mg/l	
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	HG1631	Mercury (Low Level)	2.43	ng/L	0.5
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	E-COLI	E.coli (Colilert)	50	MPN	
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	SSC	Suspended Sediment Concentration	12.0	mg/L	5.0
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	CL	Chloride	108	mg/L	1.00
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	SO4	Sulfate	59.2	mg/L	1.00
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	CHLOROPHYLL	Chlorophyll	13.9	mg/m3	1.00
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	NO2	Nitrite as N	0.0265	mg/l	0.005
AC03588	3261-07	Little Miami River	7 (LM06)	7/11/2012	11:50	NO3	Nitrate as N (calculated)	1.8835	mg/l	
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	TSS	Tot. Suspended Solids	12	mg/L	2
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	COD	COD	5	mg/L	
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	TDS	Total Dissolved Solids	540	mg/L	
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	CBOD	Carbonaceous Biochemical Oxygen Demand	3	mg/L	2
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	MF_CF	Fecal Coliform, Membrane Filter	7	CFU/100mL	
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Bromochloromethane	50.0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Chloromethane	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Vinyl Chloride	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Bromomethane	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Chloroethane	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Acrolein	0	ug/L	100.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Acrylonitrile	0	ug/L	100.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Methylene Chloride	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Chloroform	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	1,2-Dichloroethane-d4	61.6	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Benzene	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Trichloroethene	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Bromodichloromethane	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Dibromochloromethane	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Bromoform	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Tetrachloroethene	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Toluene	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Toluene-d8	52.2	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Chlorobenzene	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Ethylbenzene	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Bromofluorobenzene	51.7	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	2-Propanone	0	ug/L	60
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	2-Butanone	0	ug/L	60
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	Tetrahydrofuran	0	ug/L	
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	2-chloroethoxy ethene	0	ug/L	
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$624	TOTAL AMOUNT	343	ug/L	
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	NH3	Ammonia as N	0	mg/L	0.5
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	NO3NO2	Nitrate + Nitrite	2.01	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	TKN	Total Kjeldahl Nitrogen	0.7045	mg/L	0.5
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	O&G	O&G Total	0.48	mg/L	5
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	CN	Cyanide	.0018	mg/L	0.005
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	CN_A	Cyanide Amenable	AE	mg/L	0.005
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	CN_F	Cyanide Free	0.0000	mg/L	0.005
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	pyridine	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	2-Fluorophenol	58.2	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	aniline	0	ug/L	6.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Phenol-d6	46.6	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Phenol	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	2-Chlorophenol	0	ug/L	6.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	n-decane	0	ug/L	6.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	o-cresol	0	ug/L	6.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	acetophenone	0	ug/L	6.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Hexachloroethane	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Nitrobenzene-d5	85.7	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	p-cresol	0	ug/L	6.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Nitrobenzene	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Isophorone	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Decafluorobiphenyl	78.3	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	2-Nitrophenol	0	ug/L	6.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Naphthalene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	1-Fluoronaphthalene	73.3	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	alpha terpineol	0	ug/L	6.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Dimethyl phthalate	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Acenaphthylene	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Acenaphthene	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	4-Nitrophenol	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Diethyl phthalate	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Fluorene	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	2,4,6-Tribromophenol	95.7	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Hexachlorobenzene	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Pentachlorophenol	0	ug/L	6.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	n-octadecane	0	ug/L	6.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Phenanthrene	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Anthracene	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	carbazole	0	ug/L	6.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Fluoranthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Chrysene-d12	50.0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Benzidine	0	ug/L	6.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Pyrene	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Chrysene	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Perylene-D12	50.0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Hexachloroethane	0	ug/L	
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	2,3-Dichloroaniline	0	ug/L	
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Diethylphthalate	0	ug/L	
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Benzo[b]fluoranthene	0	ug/L	
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Benzo[k]fluoranthene	0	ug/L	
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	Benzo[ghi]perylene	0	ug/L	
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$625	TOTAL AMOUNT	738	ug/L	
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$ICP	Aluminum	0.00	mg/L	0.348
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$ICP	Antimony	0.00	mg/L	0.006
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$ICP	Arsenic	0.0206	mg/L	0.012
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$ICP	Barium	0.0777	mg/L	0.003
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$ICP	Beryllium	0.00	mg/L	0.009
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$ICP	Cadmium	0.00	mg/L	0.012
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$ICP	Calcium	76.2	mg/L	0.066

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$ICP	Chromium	0.00	mg/L	0.006
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$ICP	Cobalt	0.00	mg/L	0.006
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$ICP	Copper	0.00	mg/L	0.006
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$ICP	Iron	0.394	mg/L	0.018
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$ICP	Lead	0.00	mg/L	0.006
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$ICP	Magnesium	30.7	mg/L	0.021
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$ICP	Manganese	0.0436	mg/L	0.009
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$ICP	Nickel	0.00	mg/L	0.003
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$ICP	Selenium	0.0738	mg/L	0.009
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$ICP	Silver	0.00	mg/L	0.003
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$ICP	Strontium	0.445	mg/L	0.009
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$ICP	Thallium	0.00	mg/L	0.012
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$ICP	Tin	0.00	mg/L	0.006
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$ICP	Vanadium	0.00	mg/L	0.018
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	\$ICP	Zinc	0.00931	mg/L	0.006
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	HARD	Hardness as CaCO3	320	mg/l	
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	HG1631	Mercury (Low Level)	1.83	ng/L	0.5
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	E-COLI	E.coli (Colilert)	36	MPN	
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	SSC	Suspended Sediment Concentration	12.0	mg/L	5.0
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	CL	Chloride	106	mg/L	1.00
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	SO4	Sulfate	64.0	mg/L	1.00
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	CHLOROPHYLL	Chlorophyll	8.01	mg/m3	1.00
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	NO2	Nitrite as N	0.0223	mg/l	0.005
AC03589	3261-08	Little Miami River	8 (LM05)	7/11/2012	12:05	NO3	Nitrate as N (calculated)	1.9877	mg/l	
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	TSS	Tot. Suspended Solids	12	mg/L	2
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	COD	COD	2	mg/L	
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	TDS	Total Dissolved Solids	540	mg/L	
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	CBOD	Carbonaceous Biochemical Oxygen Demand	3	mg/L	2
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	MF_CF	Fecal Coliform, Membrane Filter	29	CFU/100mL	
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Bromochloromethane	50.0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Chloromethane	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Vinyl Chloride	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Bromomethane	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Chloroethane	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Acrolein	0	ug/L	100.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Acrylonitrile	0	ug/L	100.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Methylene Chloride	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Chloroform	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	1,2-Dichloroethane-d4	61.2	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Benzene	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Trichloroethene	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Bromodichloromethane	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Dibromochloromethane	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Bromoform	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Tetrachloroethene	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Toluene	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Toluene-d8	51.5	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Chlorobenzene	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Ethylbenzene	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Bromofluorobenzene	52.4	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	2-Propanone	0	ug/L	60
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	2-Butanone	0	ug/L	60
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	Tetrahydrofuran	0	ug/L	
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	2-chloroethoxy ethene	0	ug/L	
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$624	TOTAL AMOUNT	340	ug/L	
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	NH3	Ammonia as N	0	mg/L	0.5
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	NO3NO2	Nitrate + Nitrite	1.55	mg/L	0.5
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	TKN	Total Kjeldahl Nitrogen	0.6521	mg/L	0.5
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	O&G	O&G Total	0.38	mg/L	5
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	CN	Cyanide	.0042	mg/L	0.005
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	CN_A	Cyanide Amenable	0.0005	mg/L	0.005
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	CN_F	Cyanide Free	0.0000	mg/L	0.005
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	pyridine	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	2-Fluorophenol	26.8	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	aniline	0	ug/L	6.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Phenol-d6	27.6	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Phenol	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	2-Chlorophenol	0	ug/L	6.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	n-decane	0	ug/L	6.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	o-cresol	0	ug/L	6.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	acetophenone	0	ug/L	6.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Hexachloroethane	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Nitrobenzene-d5	75.9	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	p-cresol	0	ug/L	6.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Nitrobenzene	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Isophorone	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Decafluorobiphenyl	65.1	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	2-Nitrophenol	0	ug/L	6.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Naphthalene	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	1-Fluoronaphthalene	64.7	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	alpha terpineol	0	ug/L	6.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Dimethyl phthalate	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Acenaphthylene	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Acenaphthene	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	4-Nitrophenol	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Diethyl phthalate	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Fluorene	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	2,4,6-Tribromophenol	36.6	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Hexachlorobenzene	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Pentachlorophenol	0	ug/L	6.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	n-octadecane	0	ug/L	6.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Phenanthrene	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Anthracene	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	carbazole	0	ug/L	6.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Fluoranthene	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Chrysene-d12	50.0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Benzidine	0	ug/L	6.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Pyrene	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Chrysene	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Perylene-D12	50.0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Hexachloroethane	0	ug/L	
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	2,3-Dichloroaniline	0	ug/L	
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Diethylphthalate	0	ug/L	
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Benzo[b]fluoranthene	0	ug/L	
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Benzo[k]fluoranthene	0	ug/L	
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	Benzo[ghi]perylene	0	ug/L	
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$625	TOTAL AMOUNT	597	ug/L	
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$ICP	Antimony	0.00	mg/L	0.006
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$ICP	Barium	0.0827	mg/L	0.003
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$ICP	Calcium	80.1	mg/L	0.066
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$ICP	Chromium	0.00	mg/L	0.006
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$ICP	Copper	0.00	mg/L	0.006
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$ICP	Iron	0.392	mg/L	0.018
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$ICP	Lead	0.00	mg/L	0.006
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$ICP	Magnesium	32.7	mg/L	0.021
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$ICP	Manganese	0.0393	mg/L	0.009
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$ICP	Nickel	0.00	mg/L	0.003
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$ICP	Selenium	0.0925	mg/L	0.009
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$ICP	Silver	0.00	mg/L	0.003
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$ICP	Strontium	0.479	mg/L	0.009
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$ICP	Thallium	0.00	mg/L	0.012
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$ICP	Tin	0.00	mg/L	0.006
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	\$ICP	Zinc	0.00747	mg/L	0.006
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	HARD	Hardness as CaCO3	310	mg/l	
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	HG1631	Mercury (Low Level)	1.64	ng/L	0.5
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	E-COLI	E.coli (Colilert)	44	MPN	
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	SSC	Suspended Sediment Concentration	11.0	mg/L	5.0
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	CL	Chloride	105	mg/L	1.00
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	SO4	Sulfate	60.0	mg/L	1.00
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	CHLOROPHYLL	Chlorophyll	8.54	mg/m3	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	NO2	Nitrite as N	0.0207	mg/l	0.005
AC03590	3261-09	Little Miami River	9 (LM02)	7/11/2012	13:00	NO3	Nitrate as N (calculated)	1.5293	mg/l	
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	TSS	Tot. Suspended Solids	42	mg/L	2
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	COD	COD	13	mg/L	
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	TDS	Total Dissolved Solids	350	mg/L	
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	CBOD	Carbonaceous Biochemical Oxygen Demand	3	mg/L	2
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	MF_CF	Fecal Coliform, Membrane Filter	64	CFU/100mL	
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Bromochloromethane	50.0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Chloromethane	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Vinyl Chloride	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Bromomethane	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Chloroethane	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Acrolein	0	ug/L	100.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Acrylonitrile	0	ug/L	100.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Methylene Chloride	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Chloroform	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	1,2-Dichloroethane-d4	61.6	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Benzene	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Trichloroethene	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Bromodichloromethane	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	1,1,2-Trichloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Dibromochloromethane	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Bromoform	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Tetrachloroethene	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Toluene	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Toluene-d8	51.9	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Chlorobenzene	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Ethylbenzene	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Bromofluorobenzene	52.8	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	2-Propanone	0	ug/L	60
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	2-Butanone	0	ug/L	60
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	Tetrahydrofuran	0	ug/L	
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	2-chloroethoxy ethene	0	ug/L	
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$624	TOTAL AMOUNT	347	ug/L	
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	NH3	Ammonia as N	0	mg/L	0.5
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	NO3NO2	Nitrate + Nitrite	4.15	mg/L	0.5
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	TKN	Total Kjeldahl Nitrogen	0.7605	mg/L	0.5
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	TKP	Total Kjeldahl Phosphorus	0.6795	mg/L	0.5
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	O&G	O&G Total	0.26	mg/L	5
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	CN	Cyanide	.0030	mg/L	0.005
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	CN_A	Cyanide Amenable	AE	mg/L	0.005
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	CN_F	Cyanide Free	.0011	mg/L	0.005
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625	pyridine	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625	2-Fluorophenol	36.1	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625	aniline	0	ug/L	6.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625	Phenol-d6	25.7	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625	Phenol	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		2-Chlorophenol	0	ug/L	6.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		n-decane	0	ug/L	6.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		o-cresol	0	ug/L	6.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		acetophenone	0	ug/L	6.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Hexachloroethane	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Nitrobenzene-d5	57.6	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		p-cresol	0	ug/L	6.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Nitrobenzene	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Isophorone	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Decafluorobiphenyl	48.4	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		2-Nitrophenol	0	ug/L	6.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Naphthalene	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		1-Fluoronaphthalene	50.2	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		alpha terpineol	0	ug/L	6.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Dimethyl phthalate	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Acenaphthylene	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Acenaphthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		4-Nitrophenol	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Diethyl phthalate	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Fluorene	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		2,4,6-Tribromophenol	72.0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Hexachlorobenzene	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Pentachlorophenol	0	ug/L	6.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		n-octadecane	0	ug/L	6.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Phenanthrene	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Anthracene	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		carbazole	0	ug/L	6.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Fluoranthene	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Chrysene-d12	50.0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Benzidine	0	ug/L	6.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Pyrene	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Chrysene	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Perylene-D12	50.0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625		Benzo(a)pyrene	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625	Hexachloroethane	0	ug/L	
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625	2,3-Dichloroaniline	0	ug/L	
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625	Diethylphthalate	0	ug/L	
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625	Benzo[b]fluoranthene	0	ug/L	
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625	Benzo[k]fluoranthene	0	ug/L	
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625	Benzo[ghi]perylene	0	ug/L	
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$625	TOTAL AMOUNT	590	ug/L	
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$ICP	Aluminum	0.00	mg/L	0.348
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$ICP	Antimony	0.00	mg/L	0.006
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$ICP	Arsenic	0.0244	mg/L	0.012
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$ICP	Barium	0.0287	mg/L	0.003
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$ICP	Calcium	57.4	mg/L	0.066
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$ICP	Chromium	0.00	mg/L	0.006
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$ICP	Copper	0.00	mg/L	0.006
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$ICP	Iron	0.439	mg/L	0.018
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$ICP	Lead	0.00	mg/L	0.006
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$ICP	Magnesium	12.4	mg/L	0.021
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$ICP	Manganese	0.107	mg/L	0.009
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$ICP	Nickel	0.00	mg/L	0.003
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$ICP	Selenium	0.0264	mg/L	0.009
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$ICP	Silver	0.00	mg/L	0.003
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$ICP	Strontium	0.185	mg/L	0.009
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$ICP	Thallium	0.0318	mg/L	0.012
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$ICP	Tin	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	\$ICP	Zinc	0.00990	mg/L	0.006
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	HARD	Hardness as CaCO3	200	mg/l	
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	HG1631	Mercury (Low Level)	1.68	ng/L	0.5
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	E-COLI	E.coli (Colilert)	88	MPN	
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	SSC	Suspended Sediment Concentration	11.0	mg/L	5.0
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	CL	Chloride	46.0	mg/L	1.00
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	SO4	Sulfate	46.5	mg/L	1.00
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	CHLOROPHYLL	Chlorophyll	4.27	mg/m3	1.00
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	NO2	Nitrite as N	0.0265	mg/l	0.005
AC03591	3261-10	Little Miami River	10 (LM10)	7/11/2012	11:10	NO3	Nitrate as N (calculated)	4.1235	mg/l	
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	MF_CF	Fecal Coliform, Membrane Filter	136	CFU/100mL	
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	E-COLI	E.coli (Colilert)	152	MPN	
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	TDS	Total Dissolved Solids	180	mg/L	
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	SO4	Sulfate	31.1	mg/L	1.00
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	CL	Chloride	26.2	mg/L	1.00
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	TSS	Tot. Suspended Solids	4	mg/L	2
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	SSC	Suspended Sediment Concentration	9.0	mg/L	5.0
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	HARD	Hardness as CaCO3	268	mg/l	
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	COD	COD	10	mg/L	
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	393	uS/cm	
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	TEMP_FLD	Temperature (Field) Celsius	25.65	Deg C	
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	PH_FLD	pH (Field)	7.29	S.U.	
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	DO_FLD	Dissolved Oxygen (field) mg/L	6.11	mg/l	
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	388	uS/cm	
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	\$ICP	Antimony	0.00	mg/L	0.006
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	\$ICP	Barium	0.0252	mg/L	0.003
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	\$ICP	Cadmium	0.00	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	\$ICP	Calcium	45.9	mg/L	0.066
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	\$ICP	Chromium	0.00	mg/L	0.006
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	\$ICP	Copper	0.00	mg/L	0.006
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	\$ICP	Iron	0.280	mg/L	0.018
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	\$ICP	Lead	0.00	mg/L	0.006
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	\$ICP	Magnesium	10.3	mg/L	0.021
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	\$ICP	Manganese	0.0604	mg/L	0.009
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	\$ICP	Nickel	0.00	mg/L	0.003
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	\$ICP	Selenium	0.0367	mg/L	0.009
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	\$ICP	Silver	0.00	mg/L	0.003
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	\$ICP	Strontium	0.142	mg/L	0.009
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	\$ICP	Thallium	0.00	mg/L	0.012
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	\$ICP	Tin	0.00	mg/L	0.006
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	\$ICP	Zinc	0.00	mg/L	0.006
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	AS_FU	Arsenic by Furnace	0.287	ug/L	1.0
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	CU_FU	Copper by Furnace	2.8	ug/L	1
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	NH3	Ammonia as N	0	mg/L	0.5
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	NO3NO2	Nitrate + Nitrite	2.04	mg/L	0.5
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	TKN	Total Kjeldahl Nitrogen	0.6368	mg/L	0.5
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	TKP	Total Kjeldahl Phosphorus	0.5548	mg/L	0.5
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	NO2	Nitrite as N	0.0178	mg/l	0.005
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	NO3	Nitrate as N (calculated)	2.0222	mg/l	
AC03657	LM31	Little Miami Watershed	31	7/12/2012	08:30	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	MF_CF	Fecal Coliform, Membrane Filter	21	CFU/100mL	
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	E-COLI	E.coli (Colilert)	44	MPN	
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	TDS	Total Dissolved Solids	140	mg/L	
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	SO4	Sulfate	36.5	mg/L	1.00
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	CL	Chloride	24.3	mg/L	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	TSS	Tot. Suspended Solids	8	mg/L	2
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	SSC	Suspended Sediment Concentration	8.0	mg/L	5.0
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	HARD	Hardness as CaCO3	292	mg/l	
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	COD	COD	11	mg/L	
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	364	uS/cm	
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	TEMP_FLD	Temperature (Field) Celsius	25.84	Deg C	
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	PH_FLD	pH (Field)	7.53	S.U.	
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	DO_FLD	Dissolved Oxygen (field) mg/L	6.36	mg/l	
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	358	uS/cm	
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	\$ICP	Antimony	0.00	mg/L	0.006
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	\$ICP	Barium	0.0231	mg/L	0.003
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	\$ICP	Calcium	42.0	mg/L	0.066
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	\$ICP	Chromium	0.00	mg/L	0.006
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	\$ICP	Copper	0.00	mg/L	0.006
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	\$ICP	Iron	0.239	mg/L	0.018
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	\$ICP	Lead	0.00	mg/L	0.006
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	\$ICP	Magnesium	9.78	mg/L	0.021
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	\$ICP	Manganese	0.0554	mg/L	0.009
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	\$ICP	Nickel	0.00	mg/L	0.003
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	\$ICP	Selenium	0.0392	mg/L	0.009
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	\$ICP	Silver	0.00	mg/L	0.003
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	\$ICP	Strontium	0.129	mg/L	0.009
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	\$ICP	Thallium	0.00	mg/L	0.012
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	\$ICP	Tin	0.00	mg/L	0.006
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	\$ICP	Zinc	0.0149	mg/L	0.006
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	AS_FU	Arsenic by Furnace	0.195	ug/L	1.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	CU_FU	Copper by Furnace	4.1	ug/L	1
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	NH3	Ammonia as N	0	mg/L	0.5
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	NO3NO2	Nitrate + Nitrite	2.56	mg/L	0.5
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	TKN	Total Kjeldahl Nitrogen	0.7311	mg/L	0.5
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	TKP	Total Kjeldahl Phosphorus	0.6303	mg/L	0.5
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	NO2	Nitrite as N	0.0190	mg/l	0.005
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	NO3	Nitrate as N (calculated)	2.5410	mg/l	
AC03658	LM30	Little Miami Watershed	30	7/12/2012	09:00	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	MF_CF	Fecal Coliform, Membrane Filter	129	CFU/100mL	
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	E-COLI	E.coli (Colilert)	137	MPN	
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	TDS	Total Dissolved Solids	130	mg/L	
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	SO4	Sulfate	31.2	mg/L	1.00
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	CL	Chloride	26.1	mg/L	1.00
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	TSS	Tot. Suspended Solids	4	mg/L	2
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	SSC	Suspended Sediment Concentration	6.0	mg/L	5.0
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	HARD	Hardness as CaCO3	256	mg/l	
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	COD	COD	8	mg/L	
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	361	uS/cm	
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	TEMP_FLD	Temperature (Field) Celsius	25.27	Deg C	
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	PH_FLD	pH (Field)	7.44	S.U.	
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	DO_FLD	Dissolved Oxygen (field) mg/L	5.11	mg/l	
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	359	uS/cm	
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	\$ICP	Antimony	0.00	mg/L	0.006
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	\$ICP	Barium	0.0216	mg/L	0.003
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	\$ICP	Calcium	40.4	mg/L	0.066
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	\$ICP	Chromium	0.00	mg/L	0.006
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	\$ICP	Cobalt	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	\$ICP	Copper	0.00	mg/L	0.006
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	\$ICP	Iron	0.210	mg/L	0.018
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	\$ICP	Lead	0.00	mg/L	0.006
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	\$ICP	Magnesium	9.37	mg/L	0.021
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	\$ICP	Manganese	0.0441	mg/L	0.009
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	\$ICP	Nickel	0.00	mg/L	0.003
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	\$ICP	Selenium	0.0429	mg/L	0.009
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	\$ICP	Silver	0.00	mg/L	0.003
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	\$ICP	Strontium	0.124	mg/L	0.009
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	\$ICP	Thallium	0.00	mg/L	0.012
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	\$ICP	Tin	0.00	mg/L	0.006
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	\$ICP	Zinc	0.00725	mg/L	0.006
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	AS_FU	Arsenic by Furnace	0	ug/L	1.0
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	CU_FU	Copper by Furnace	3.1	ug/L	1
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	NH3	Ammonia as N	0	mg/L	0.5
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	NO3NO2	Nitrate + Nitrite	3.18	mg/L	0.5
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	TKN	Total Kjeldahl Nitrogen	0.7410	mg/L	0.5
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	TKP	Total Kjeldahl Phosphorus	0.7056	mg/L	0.5
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	NO2	Nitrite as N	0.0184	mg/l	0.005
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	NO3	Nitrate as N (calculated)	3.1616	mg/l	
AC03659	LM29	Little Miami Watershed	29	7/12/2012	09:30	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	MF_CF	Fecal Coliform, Membrane Filter	733	CFU/100mL	
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	E-COLI	E.coli (Colilert)	1046	MPN	
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	TDS	Total Dissolved Solids	100	mg/L	
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	SO4	Sulfate	21.9	mg/L	1.00
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	CL	Chloride	16.0	mg/L	1.00
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	TSS	Tot. Suspended Solids	16	mg/L	2
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	SSC	Suspended Sediment Concentration	8.0	mg/L	5.0
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	HARD	Hardness as CaCO3	150	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	COD	COD	4	mg/L	
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	283	uS/cm	
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	TEMP_FLD	Temperature (Field) Celsius	25.01	Deg C	
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	PH_FLD	pH (Field)	7.39	S.U.	
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	DO_FLD	Dissolved Oxygen (field) mg/L	6.31	mg/l	
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	283	uS/cm	
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	\$ICP	Aluminum	0.00	mg/L	0.348
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	\$ICP	Antimony	0.00	mg/L	0.006
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	\$ICP	Arsenic	0.0262	mg/L	0.012
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	\$ICP	Barium	0.0233	mg/L	0.003
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	\$ICP	Beryllium	0.00	mg/L	0.009
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	\$ICP	Cadmium	0.00	mg/L	0.012
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	\$ICP	Calcium	36.7	mg/L	0.066
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	\$ICP	Chromium	0.00	mg/L	0.006
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	\$ICP	Cobalt	0.00	mg/L	0.006
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	\$ICP	Copper	0.00	mg/L	0.006
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	\$ICP	Iron	0.272	mg/L	0.018
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	\$ICP	Lead	0.00841	mg/L	0.006
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	\$ICP	Magnesium	8.28	mg/L	0.021
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	\$ICP	Manganese	0.0572	mg/L	0.009
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	\$ICP	Nickel	0.00	mg/L	0.003
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	\$ICP	Selenium	0.0678	mg/L	0.009
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	\$ICP	Silver	0.00	mg/L	0.003
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	\$ICP	Strontium	0.104	mg/L	0.009
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	\$ICP	Thallium	0.0154	mg/L	0.012
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	\$ICP	Tin	0.00	mg/L	0.006
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	\$ICP	Vanadium	0.00	mg/L	0.018
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	\$ICP	Zinc	0.00	mg/L	0.006
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	AS_FU	Arsenic by Furnace	0.203	ug/L	1.0
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	CU_FU	Copper by Furnace	1.9	ug/L	1
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	NH3	Ammonia as N	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	NO3NO2	Nitrate + Nitrite	0.570	mg/L	0.5
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	TKN	Total Kjeldahl Nitrogen	0.7764	mg/L	0.5
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	NO2	Nitrite as N	0.0102	mg/l	0.005
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	NO3	Nitrate as N (calculated)	0.5598	mg/l	
AC03660	LM28	Little Miami Watershed	28	7/12/2012	09:35	CHLOROPHYLL	Chlorophyll	3.74	mg/m3	1.00
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	MF_CF	Fecal Coliform, Membrane Filter	21	CFU/100mL	
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	E-COLI	E.coli (Colilert)	59	MPN	
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	TDS	Total Dissolved Solids	60	mg/L	
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	SO4	Sulfate	21.7	mg/L	1.00
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	CL	Chloride	15.0	mg/L	1.00
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	TSS	Tot. Suspended Solids	14	mg/L	2
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	SSC	Suspended Sediment Concentration	6.0	mg/L	5.0
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	HARD	Hardness as CaCO3	182	mg/l	
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	COD	COD	13	mg/L	
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	272	uS/cm	
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	TEMP_FLD	Temperature (Field) Celsius	24.74	Deg C	
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	PH_FLD	pH (Field)	7.39	S.U.	
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	DO_FLD	Dissolved Oxygen (field) mg/L	6.53	mg/l	
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	CONDUCTIVITY	Specific Conductivity (uS/cm)	273	uS/cm	
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	\$ICP	Aluminum	0.00	mg/L	0.348
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	\$ICP	Antimony	0.00	mg/L	0.006
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	\$ICP	Arsenic	0.0251	mg/L	0.012
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	\$ICP	Barium	0.0231	mg/L	0.003
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	\$ICP	Beryllium	0.00	mg/L	0.009
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	\$ICP	Cadmium	0.00	mg/L	0.012
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	\$ICP	Calcium	35.2	mg/L	0.066
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	\$ICP	Chromium	0.00	mg/L	0.006
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	\$ICP	Cobalt	0.00	mg/L	0.006
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	\$ICP	Copper	0.00	mg/L	0.006
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	\$ICP	Iron	0.231	mg/L	0.018
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	\$ICP	Lead	0.00	mg/L	0.006



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	\$ICP	Magnesium	8.04	mg/L	0.021
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	\$ICP	Manganese	0.0517	mg/L	0.009
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	\$ICP	Nickel	0.00	mg/L	0.003
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	\$ICP	Selenium	0.0592	mg/L	0.009
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	\$ICP	Silver	0.00	mg/L	0.003
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	\$ICP	Strontium	0.0982	mg/L	0.009
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	\$ICP	Thallium	0.0271	mg/L	0.012
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	\$ICP	Tin	0.00	mg/L	0.006
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	\$ICP	Vanadium	0.00	mg/L	0.018
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	\$ICP	Zinc	0.00	mg/L	0.006
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	AS_FU	Arsenic by Furnace	0.332	ug/L	1.0
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	CU_FU	Copper by Furnace	2.1	ug/L	1
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	NH3	Ammonia as N	0	mg/L	0.5
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	NO3NO2	Nitrate + Nitrite	3.22	mg/L	0.5
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	TKN	Total Kjeldahl Nitrogen	0.7928	mg/L	0.5
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	NO2	Nitrite as N	0.0084	mg/l	0.005
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	NO3	Nitrate as N (calculated)	3.2116	mg/l	
AC03661	LM27	Little Miami Watershed	27	7/12/2012	09:55	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	MF_CF	Fecal Coliform, Membrane Filter	71	CFU/100mL	
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	E-COLI	E.coli (Colilert)	50	MPN	
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	TDS	Total Dissolved Solids	90	mg/L	
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	SO4	Sulfate	21.8	mg/L	1.00
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	CL	Chloride	15.2	mg/L	1.00
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	TSS	Tot. Suspended Solids	10	mg/L	2
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	SSC	Suspended Sediment Concentration	6.0	mg/L	5.0
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	HARD	Hardness as CaCO3	162	mg/l	
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	COD	COD	15	mg/L	
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	264	uS/cm	
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	TEMP_FLD	Temperature (Field) Celsius	24.53	Deg C	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	PH_FLD	pH (Field)	7.33	S.U.	
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	DO_FLD	Dissolved Oxygen (field) mg/L	6.48	mg/l	
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	267	uS/cm	
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	\$ICP	Aluminum	0.00	mg/L	0.348
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	\$ICP	Antimony	0.0114	mg/L	0.006
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	\$ICP	Arsenic	0.0244	mg/L	0.012
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	\$ICP	Barium	0.0221	mg/L	0.003
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	\$ICP	Calcium	34.0	mg/L	0.066
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	\$ICP	Chromium	0.00	mg/L	0.006
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	\$ICP	Copper	0.00	mg/L	0.006
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	\$ICP	Iron	0.203	mg/L	0.018
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	\$ICP	Lead	0.00	mg/L	0.006
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	\$ICP	Magnesium	7.79	mg/L	0.021
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	\$ICP	Manganese	0.0513	mg/L	0.009
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	\$ICP	Nickel	0.00	mg/L	0.003
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	\$ICP	Selenium	0.00	mg/L	0.009
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	\$ICP	Silver	0.00	mg/L	0.003
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	\$ICP	Strontium	0.0931	mg/L	0.009
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	\$ICP	Thallium	0.0135	mg/L	0.012
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	\$ICP	Tin	0.00	mg/L	0.006
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	\$ICP	Zinc	0.00684	mg/L	0.006
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	AS_FU	Arsenic by Furnace	0.088	ug/L	1.0
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	CU_FU	Copper by Furnace	2.3	ug/L	1
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	NH3	Ammonia as N	0	mg/L	0.5
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	NO3NO2	Nitrate + Nitrite	1.04	mg/L	0.5
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	TKN	Total Kjeldahl Nitrogen	0.8843	mg/L	0.5
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	NO2	Nitrite as N	0.0095	mg/l	0.005
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	NO3	Nitrate as N (calculated)	1.0305	mg/l	
AC03662	LM26	Little Miami Watershed	26	7/12/2012	10:10	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	21	CFU/100mL	
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	E-COLI	E.coli (Colilert)	8	MPN	
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	TDS	Total Dissolved Solids	180	mg/L	
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	SO4	Sulfate	21.6	mg/L	1.00
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	CL	Chloride	14.6	mg/L	1.00
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	TSS	Tot. Suspended Solids	4	mg/L	2
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	HARD	Hardness as CaCO3	136	mg/l	
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	COD	COD	15	mg/L	
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	236	uS/cm	
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	21.55	Deg C	
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	PH_FLD	pH (Field)	7.46	S.U.	
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	7.43	mg/l	
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	252	uS/cm	
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	\$ICP	Antimony	0.00	mg/L	0.006
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	\$ICP	Arsenic	0.0216	mg/L	0.012
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	\$ICP	Barium	0.0251	mg/L	0.003
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	\$ICP	Calcium	32.6	mg/L	0.066
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	\$ICP	Chromium	0.00	mg/L	0.006
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	\$ICP	Copper	0.00	mg/L	0.006
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	\$ICP	Iron	0.207	mg/L	0.018
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	\$ICP	Lead	0.00	mg/L	0.006
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	\$ICP	Magnesium	7.87	mg/L	0.021
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	\$ICP	Manganese	0.0769	mg/L	0.009
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	\$ICP	Nickel	0.00	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	\$ICP	Selenium	0.0460	mg/L	0.009
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	\$ICP	Silver	0.00	mg/L	0.003
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	\$ICP	Strontium	0.0883	mg/L	0.009
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	\$ICP	Thallium	0.00	mg/L	0.012
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	\$ICP	Tin	0.00	mg/L	0.006
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	\$ICP	Zinc	0.00	mg/L	0.006
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	AS_FU	Arsenic by Furnace	0.046	ug/L	1.0
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	CU_FU	Copper by Furnace	1.6	ug/L	1
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	NO3NO2	Nitrate + Nitrite	0.634	mg/L	0.5
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	TKN	Total Kjeldahl Nitrogen	0.7660	mg/L	0.5
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	NO2	Nitrite as N	0.0339	mg/l	0.005
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	NO3	Nitrate as N (calculated)	0.6001	mg/l	
AC03663	LM25	Little Miami Watershed	25	7/12/2012	10:30	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	MF_CF	Fecal Coliform, Membrane Filter	121	CFU/100mL	
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	E-COLI	E.coli (Colilert)	75	MPN	
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	TDS	Total Dissolved Solids	510	mg/L	
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	SO4	Sulfate	59.5	mg/L	1.00
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	CL	Chloride	104	mg/L	1.00
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	TSS	Tot. Suspended Solids	10	mg/L	2
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	SSC	Suspended Sediment Concentration	10.0	mg/L	5.0
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	HARD	Hardness as CaCO3	300	mg/l	
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	COD	COD	5	mg/L	
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	855	uS/cm	
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	TEMP_FLD	Temperature (Field) Celsius	25.93	Deg C	
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	PH_FLD	pH (Field)	7.84	S.U.	
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	DO_FLD	Dissolved Oxygen (field) mg/L	6.25	mg/l	
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	838	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	\$ICP	Aluminum	0.00	mg/L	0.348
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	\$ICP	Antimony	0.00	mg/L	0.006
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	\$ICP	Arsenic	0.0512	mg/L	0.012
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	\$ICP	Barium	0.0679	mg/L	0.003
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	\$ICP	Calcium	74.7	mg/L	0.066
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	\$ICP	Chromium	0.00	mg/L	0.006
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	\$ICP	Copper	0.00	mg/L	0.006
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	\$ICP	Iron	0.237	mg/L	0.018
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	\$ICP	Lead	0.0121	mg/L	0.006
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	\$ICP	Magnesium	26.2	mg/L	0.021
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	\$ICP	Manganese	0.0940	mg/L	0.009
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	\$ICP	Nickel	0.00	mg/L	0.003
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	\$ICP	Selenium	0.0820	mg/L	0.009
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	\$ICP	Silver	0.00	mg/L	0.003
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	\$ICP	Strontium	0.371	mg/L	0.009
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	\$ICP	Thallium	0.0162	mg/L	0.012
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	\$ICP	Tin	0.00	mg/L	0.006
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	\$ICP	Zinc	0.0137	mg/L	0.006
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	AS_FU	Arsenic by Furnace	0.318	ug/L	1.0
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	CU_FU	Copper by Furnace	3.2	ug/L	1
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	NH3	Ammonia as N	0	mg/L	0.5
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	NO3NO2	Nitrate + Nitrite	1.38	mg/L	0.5
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	TKN	Total Kjeldahl Nitrogen	0.7456	mg/L	0.5
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	NO2	Nitrite as N	0.0177	mg/l	0.005
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	NO3	Nitrate as N (calculated)	1.3623	mg/l	
AC03754	LM14	Little Miami Watershed	14	7/13/2012	09:45	CHLOROPHYLL	Chlorophyll	23.5	mg/m3	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	MF_CF	Fecal Coliform, Membrane Filter	64	CFU/100mL	
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	E-COLI	E.coli (Colilert)	73	MPN	
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	TDS	Total Dissolved Solids	520	mg/L	
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	SO4	Sulfate	56.5	mg/L	1.00
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	CL	Chloride	104	mg/L	1.00
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	TSS	Tot. Suspended Solids	14	mg/L	2
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	SSC	Suspended Sediment Concentration	13.0	mg/L	5.0
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	HARD	Hardness as CaCO3	312	mg/l	
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	COD	COD	18	mg/L	
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	849	uS/cm	
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	TEMP_FLD	Temperature (Field) Celsius	26.29	Deg C	
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	PH_FLD	pH (Field)	8.01	S.U.	
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	DO_FLD	Dissolved Oxygen (field) mg/L	7.93	mg/l	
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	828	uS/cm	
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	\$ICP	Aluminum	0.00	mg/L	0.348
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	\$ICP	Antimony	0.00770	mg/L	0.006
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	\$ICP	Arsenic	0.0412	mg/L	0.012
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	\$ICP	Barium	0.0689	mg/L	0.003
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	\$ICP	Calcium	80.3	mg/L	0.066
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	\$ICP	Chromium	0.00	mg/L	0.006
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	\$ICP	Copper	0.00	mg/L	0.006
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	\$ICP	Iron	0.318	mg/L	0.018
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	\$ICP	Lead	0.00982	mg/L	0.006
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	\$ICP	Magnesium	26.7	mg/L	0.021
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	\$ICP	Manganese	0.0965	mg/L	0.009
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	\$ICP	Nickel	0.00	mg/L	0.003
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	\$ICP	Selenium	0.0800	mg/L	0.009
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	\$ICP	Silver	0.00	mg/L	0.003
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	\$ICP	Strontium	0.375	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	\$ICP	Thallium	0.00	mg/L	0.012
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	\$ICP	Tin	0.00	mg/L	0.006
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	\$ICP	Zinc	0.00918	mg/L	0.006
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	AS_FU	Arsenic by Furnace	0.298	ug/L	1.0
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	CU_FU	Copper by Furnace	3.0	ug/L	1
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	NH3	Ammonia as N	0	mg/L	0.5
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	NO3NO2	Nitrate + Nitrite	1.27	mg/L	0.5
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	TKN	Total Kjeldahl Nitrogen	0.7013	mg/L	0.5
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	NO2	Nitrite as N	0.0189	mg/l	0.005
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	NO3	Nitrate as N (calculated)	1.2511	mg/l	
AC03755	LM15	Little Miami Watershed	15	7/13/2012	09:20	CHLOROPHYLL	Chlorophyll	23.0	mg/m3	1.00
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	MF_CF	Fecal Coliform, Membrane Filter	320	CFU/100mL	
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	E-COLI	E.coli (Colilert)	291	MPN	
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	TDS	Total Dissolved Solids	440	mg/L	
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	SO4	Sulfate	76.2	mg/L	1.00
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	CL	Chloride	109	mg/L	1.00
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	TSS	Tot. Suspended Solids	10	mg/L	2
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	HARD	Hardness as CaCO3	240	mg/l	
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	COD	COD	9	mg/L	
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	722	uS/cm	
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	TEMP_FLD	Temperature (Field) Celsius	24.07	Deg C	
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	PH_FLD	pH (Field)	7.71	S.U.	
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	DO_FLD	Dissolved Oxygen (field) mg/L	5.97	mg/l	
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	735	uS/cm	
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	\$ICP	Antimony	0.00	mg/L	0.006
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	\$ICP	Arsenic	0.0401	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	\$ICP	Barium	0.0456	mg/L	0.003
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	\$ICP	Calcium	70.5	mg/L	0.066
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	\$ICP	Chromium	0.00	mg/L	0.006
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	\$ICP	Copper	0.00	mg/L	0.006
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	\$ICP	Iron	0.0809	mg/L	0.018
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	\$ICP	Lead	0.0113	mg/L	0.006
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	\$ICP	Magnesium	19.0	mg/L	0.021
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	\$ICP	Manganese	0.0370	mg/L	0.009
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	\$ICP	Nickel	0.00	mg/L	0.003
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	\$ICP	Selenium	0.0826	mg/L	0.009
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	\$ICP	Silver	0.00	mg/L	0.003
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	\$ICP	Strontium	0.295	mg/L	0.009
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	\$ICP	Thallium	0.00	mg/L	0.012
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	\$ICP	Tin	0.00	mg/L	0.006
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	\$ICP	Zinc	0.00	mg/L	0.006
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	AS_FU	Arsenic by Furnace	0	ug/L	1.0
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	CU_FU	Copper by Furnace	2.4	ug/L	1
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	NH3	Ammonia as N	0	mg/L	0.5
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	NO2	Nitrite as N	0.0026	mg/l	0.005
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03756	LM97	Little Miami Watershed	97	7/13/2012	09:50	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	MF_CF	Fecal Coliform, Membrane Filter	210	CFU/100mL	
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	E-COLI	E.coli (Colilert)	238	MPN	
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	TDS	Total Dissolved Solids	390	mg/L	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	SO4	Sulfate	70.0	mg/L	1.00
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	CL	Chloride	131	mg/L	1.00
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	TSS	Tot. Suspended Solids	10	mg/L	2
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	HARD	Hardness as CaCO3	244	mg/l	
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	COD	COD	28	mg/L	
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	805	uS/cm	
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	TEMP_FLD	Temperature (Field) Celsius	24.80	Deg C	
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	PH_FLD	pH (Field)	7.47	S.U.	
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	DO_FLD	Dissolved Oxygen (field) mg/L	4.61	mg/l	
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	808	uS/cm	
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	\$ICP	Aluminum	0.00	mg/L	0.348
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	\$ICP	Antimony	0.00	mg/L	0.006
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	\$ICP	Arsenic	0.0271	mg/L	0.012
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	\$ICP	Barium	0.0413	mg/L	0.003
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	\$ICP	Calcium	65.0	mg/L	0.066
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	\$ICP	Chromium	0.00	mg/L	0.006
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	\$ICP	Copper	0.00	mg/L	0.006
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	\$ICP	Iron	0.127	mg/L	0.018
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	\$ICP	Lead	0.0131	mg/L	0.006
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	\$ICP	Magnesium	18.6	mg/L	0.021
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	\$ICP	Manganese	0.0453	mg/L	0.009
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	\$ICP	Nickel	0.00	mg/L	0.003
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	\$ICP	Selenium	0.0714	mg/L	0.009
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	\$ICP	Silver	0.00	mg/L	0.003
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	\$ICP	Strontium	0.300	mg/L	0.009
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	\$ICP	Thallium	0.00	mg/L	0.012
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	\$ICP	Tin	0.00	mg/L	0.006
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	\$ICP	Vanadium	0.00	mg/L	0.018

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	\$ICP	Zinc	0.00763	mg/L	0.006
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	AS_FU	Arsenic by Furnace	0	ug/L	1.0
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	CU_FU	Copper by Furnace	3.1	ug/L	1
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	NH3	Ammonia as N	0	mg/L	0.5
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	NO2	Nitrite as N	0.0027	mg/l	0.005
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03757	LM98	Little Miami Watershed	98	7/13/2012	10:15	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	MF_CF	Fecal Coliform, Membrane Filter	320	CFU/100mL	
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	E-COLI	E.coli (Colilert)	435	MPN	
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	TDS	Total Dissolved Solids	460	mg/L	
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	SO4	Sulfate	94.0	mg/L	1.00
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	CL	Chloride	126	mg/L	1.00
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	TSS	Tot. Suspended Solids	4	mg/L	2
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	HARD	Hardness as CaCO3	310	mg/l	
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	COD	COD	5	mg/L	
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	827	uS/cm	
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	TEMP_FLD	Temperature (Field) Celsius	22.43	Deg C	
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	PH_FLD	pH (Field)	7.49	S.U.	
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	DO_FLD	Dissolved Oxygen (field) mg/L	5.41	mg/l	
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	870	uS/cm	
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	\$ICP	Antimony	0.00	mg/L	0.006
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	\$ICP	Arsenic	0.0363	mg/L	0.012
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	\$ICP	Barium	0.0549	mg/L	0.003
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	\$ICP	Cadmium	0.00	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	\$ICP	Calcium	91.6	mg/L	0.066
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	\$ICP	Chromium	0.00	mg/L	0.006
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	\$ICP	Copper	0.00	mg/L	0.006
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	\$ICP	Iron	0.0364	mg/L	0.018
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	\$ICP	Lead	0.00	mg/L	0.006
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	\$ICP	Magnesium	21.6	mg/L	0.021
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	\$ICP	Manganese	0.0277	mg/L	0.009
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	\$ICP	Nickel	0.00	mg/L	0.003
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	\$ICP	Selenium	0.0879	mg/L	0.009
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	\$ICP	Silver	0.00	mg/L	0.003
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	\$ICP	Strontium	0.393	mg/L	0.009
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	\$ICP	Thallium	0.00	mg/L	0.012
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	\$ICP	Tin	0.00	mg/L	0.006
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	\$ICP	Zinc	0.00749	mg/L	0.006
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	AS_FU	Arsenic by Furnace	0	ug/L	1.0
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	CU_FU	Copper by Furnace	3.2	ug/L	1
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	NH3	Ammonia as N	0	mg/L	0.5
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	NO2	Nitrite as N	0.0041	mg/l	0.005
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03758	LM105	Little Miami Watershed	105	7/13/2012	10:50	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	MF_CF	Fecal Coliform, Membrane Filter	410	CFU/100mL	
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	E-COLI	E.coli (Colilert)	150	MPN	
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	TDS	Total Dissolved Solids	330	mg/L	
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	SO4	Sulfate	74.0	mg/L	1.00
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	CL	Chloride	71.8	mg/L	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	TSS	Tot. Suspended Solids	28	mg/L	2
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	SSC	Suspended Sediment Concentration	14.0	mg/L	5.0
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	HARD	Hardness as CaCO3	264	mg/l	
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	COD	COD	20	mg/L	
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	685	uS/cm	
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	TEMP_FLD	Temperature (Field) Celsius	23.42	Deg C	
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	PH_FLD	pH (Field)	7.71	S.U.	
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	DO_FLD	Dissolved Oxygen (field) mg/L	6.60	mg/l	
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	706	uS/cm	
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	\$ICP	Aluminum	0.00	mg/L	0.348
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	\$ICP	Antimony	0.00	mg/L	0.006
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	\$ICP	Arsenic	0.0380	mg/L	0.012
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	\$ICP	Barium	0.0460	mg/L	0.003
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	\$ICP	Calcium	88.1	mg/L	0.066
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	\$ICP	Chromium	0.00	mg/L	0.006
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	\$ICP	Copper	0.00	mg/L	0.006
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	\$ICP	Iron	0.540	mg/L	0.018
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	\$ICP	Lead	0.00	mg/L	0.006
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	\$ICP	Magnesium	20.3	mg/L	0.021
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	\$ICP	Manganese	0.0513	mg/L	0.009
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	\$ICP	Nickel	0.00	mg/L	0.003
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	\$ICP	Selenium	0.0734	mg/L	0.009
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	\$ICP	Silver	0.00	mg/L	0.003
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	\$ICP	Strontium	0.398	mg/L	0.009
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	\$ICP	Thallium	0.00	mg/L	0.012
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	\$ICP	Tin	0.00	mg/L	0.006
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	\$ICP	Zinc	0.00	mg/L	0.006
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	AS_FU	Arsenic by Furnace	0	ug/L	1.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	CU_FU	Copper by Furnace	2.1	ug/L	1
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	NH3	Ammonia as N	0	mg/L	0.5
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	NO2	Nitrite as N	0.0023	mg/l	0.005
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03759	LM104	Little Miami Watershed	104	7/13/2012	11:20	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC03801	LM01	Little Miami Watershed	1	7/16/2012	08:15	MF_CF	Fecal Coliform, Membrane Filter	290	CFU/100mL	
AC03801	LM01	Little Miami Watershed	1	7/16/2012	08:15	E-COLI	E.coli (Colilert)	261	MPN	
AC03801	LM01	Little Miami Watershed	1	7/16/2012	08:15	TDS	Total Dissolved Solids	390	mg/L	
AC03801	LM01	Little Miami Watershed	1	7/16/2012	08:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03801	LM01	Little Miami Watershed	1	7/16/2012	08:15	SO4	Sulfate	59.0	mg/L	12.5
AC03801	LM01	Little Miami Watershed	1	7/16/2012	08:15	CL	Chloride	113	mg/L	4.00
AC03801	LM01	Little Miami Watershed	1	7/16/2012	08:15	TSS	Tot. Suspended Solids	21	mg/L	2
AC03801	LM01	Little Miami Watershed	1	7/16/2012	08:15	SSC	Suspended Sediment Concentration	15.0	mg/L	5.0
AC03801	LM01	Little Miami Watershed	1	7/16/2012	08:15	HARD	Hardness as CaCO3	290	mg/l	
AC03801	LM01	Little Miami Watershed	1	7/16/2012	08:15	COD	COD	5	mg/L	
AC03801	LM01	Little Miami Watershed	1	7/16/2012	08:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	870	uS/cm	
AC03801	LM01	Little Miami Watershed	1	7/16/2012	08:15	TEMP_FLD	Temperature (Field) Celsius	26.02	Deg C	
AC03801	LM01	Little Miami Watershed	1	7/16/2012	08:15	PH_FLD	pH (Field)	7.86	S.U.	
AC03801	LM01	Little Miami Watershed	1	7/16/2012	08:15	DO_FLD	Dissolved Oxygen (field) mg/L	7.27	mg/l	
AC03801	LM01	Little Miami Watershed	1	7/16/2012	08:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	854	uS/cm	
AC03801	LM01	Little Miami Watershed	1	7/16/2012	08:15	NH3	Ammonia as N	0	mg/L	0.5
AC03801	LM01	Little Miami Watershed	1	7/16/2012	08:15	NO3NO2	Nitrate + Nitrite	1.65	mg/L	0.5
AC03801	LM01	Little Miami Watershed	1	7/16/2012	08:15	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC03801	LM01	Little Miami Watershed	1	7/16/2012	08:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03801	LM01	Little Miami Watershed	1	7/16/2012	08:15	NO2	Nitrite as N	0.0245	mg/l	0.005
AC03801	LM01	Little Miami Watershed	1	7/16/2012	08:15	NO3	Nitrate as N (calculated)	1.6255	mg/l	
AC03801	LM01	Little Miami Watershed	1	7/16/2012	08:15	CHLOROPHYLL	Chlorophyll	9.08	mg/m3	1.00
AC03802	LM02	Little Miami Watershed	2 (3261-09)	7/16/2012	08:45	MF_CF	Fecal Coliform, Membrane Filter	608	CFU/100mL	
AC03802	LM02	Little Miami Watershed	2 (3261-09)	7/16/2012	08:45	E-COLI	E.coli (Colilert)	727	MPN	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03802	LM02	Little Miami Watershed	2 (3261-09)	7/16/2012	08:45	TDS	Total Dissolved Solids	370	mg/L	
AC03802	LM02	Little Miami Watershed	2 (3261-09)	7/16/2012	08:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03802	LM02	Little Miami Watershed	2 (3261-09)	7/16/2012	08:45	SO4	Sulfate	51.2	mg/L	12.5
AC03802	LM02	Little Miami Watershed	2 (3261-09)	7/16/2012	08:45	CL	Chloride	84.5	mg/L	1.00
AC03802	LM02	Little Miami Watershed	2 (3261-09)	7/16/2012	08:45	TSS	Tot. Suspended Solids	20	mg/L	2
AC03802	LM02	Little Miami Watershed	2 (3261-09)	7/16/2012	08:45	SSC	Suspended Sediment Concentration	18.0	mg/L	5.0
AC03802	LM02	Little Miami Watershed	2 (3261-09)	7/16/2012	08:45	HARD	Hardness as CaCO3	274	mg/l	
AC03802	LM02	Little Miami Watershed	2 (3261-09)	7/16/2012	08:45	COD	COD	31	mg/L	
AC03802	LM02	Little Miami Watershed	2 (3261-09)	7/16/2012	08:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	755	uS/cm	
AC03802	LM02	Little Miami Watershed	2 (3261-09)	7/16/2012	08:45	TEMP_FLD	Temperature (Field) Celsius	26.43	Deg C	
AC03802	LM02	Little Miami Watershed	2 (3261-09)	7/16/2012	08:45	PH_FLD	pH (Field)	8.03	S.U.	
AC03802	LM02	Little Miami Watershed	2 (3261-09)	7/16/2012	08:45	DO_FLD	Dissolved Oxygen (field) mg/L	7.37	mg/l	
AC03802	LM02	Little Miami Watershed	2 (3261-09)	7/16/2012	08:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	735	uS/cm	
AC03802	LM02	Little Miami Watershed	2 (3261-09)	7/16/2012	08:45	NH3	Ammonia as N	0	mg/L	0.5
AC03802	LM02	Little Miami Watershed	2 (3261-09)	7/16/2012	08:45	NO3NO2	Nitrate + Nitrite	1.23	mg/L	0.5
AC03802	LM02	Little Miami Watershed	2 (3261-09)	7/16/2012	08:45	TKN	Total Kjeldahl Nitrogen	0.5586	mg/L	0.5
AC03802	LM02	Little Miami Watershed	2 (3261-09)	7/16/2012	08:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03802	LM02	Little Miami Watershed	2 (3261-09)	7/16/2012	08:45	NO2	Nitrite as N	0.0169	mg/l	0.005
AC03802	LM02	Little Miami Watershed	2 (3261-09)	7/16/2012	08:45	NO3	Nitrate as N (calculated)	1.2131	mg/l	
AC03802	LM02	Little Miami Watershed	2 (3261-09)	7/16/2012	08:45	CHLOROPHYLL	Chlorophyll	8.01	mg/m3	1.00
AC03803	LM03	Little Miami Watershed	3	7/16/2012	08:55	MF_CF	Fecal Coliform, Membrane Filter	685	CFU/100mL	
AC03803	LM03	Little Miami Watershed	3	7/16/2012	08:55	E-COLI	E.coli (Colilert)	326	MPN	
AC03803	LM03	Little Miami Watershed	3	7/16/2012	08:55	TDS	Total Dissolved Solids	370	mg/L	
AC03803	LM03	Little Miami Watershed	3	7/16/2012	08:55	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03803	LM03	Little Miami Watershed	3	7/16/2012	08:55	SO4	Sulfate	52.2	mg/L	12.5
AC03803	LM03	Little Miami Watershed	3	7/16/2012	08:55	CL	Chloride	82.4	mg/L	1.00
AC03803	LM03	Little Miami Watershed	3	7/16/2012	08:55	TSS	Tot. Suspended Solids	12	mg/L	2
AC03803	LM03	Little Miami Watershed	3	7/16/2012	08:55	SSC	Suspended Sediment Concentration	13.0	mg/L	5.0
AC03803	LM03	Little Miami Watershed	3	7/16/2012	08:55	HARD	Hardness as CaCO3	264	mg/l	
AC03803	LM03	Little Miami Watershed	3	7/16/2012	08:55	COD	COD	29	mg/L	
AC03803	LM03	Little Miami Watershed	3	7/16/2012	08:55	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	727	uS/cm	
AC03803	LM03	Little Miami Watershed	3	7/16/2012	08:55	TEMP_FLD	Temperature (Field) Celsius	26.43	Deg C	
AC03803	LM03	Little Miami Watershed	3	7/16/2012	08:55	PH_FLD	pH (Field)	7.99	S.U.	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03803	LM03	Little Miami Watershed	3	7/16/2012	08:55	DO_FLD	Dissolved Oxygen (field) mg/L	7.48	mg/l	
AC03803	LM03	Little Miami Watershed	3	7/16/2012	08:55	CONDUCTIVITY	Specific Conductivity (uS/cm)	707	uS/cm	
AC03803	LM03	Little Miami Watershed	3	7/16/2012	08:55	NH3	Ammonia as N	0	mg/L	0.5
AC03803	LM03	Little Miami Watershed	3	7/16/2012	08:55	NO3NO2	Nitrate + Nitrite	1.36	mg/L	0.5
AC03803	LM03	Little Miami Watershed	3	7/16/2012	08:55	TKN	Total Kjeldahl Nitrogen	0.6938	mg/L	0.5
AC03803	LM03	Little Miami Watershed	3	7/16/2012	08:55	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03803	LM03	Little Miami Watershed	3	7/16/2012	08:55	NO2	Nitrite as N	0.0208	mg/l	0.005
AC03803	LM03	Little Miami Watershed	3	7/16/2012	08:55	NO3	Nitrate as N (calculated)	1.3392	mg/l	
AC03803	LM03	Little Miami Watershed	3	7/16/2012	08:55	CHLOROPHYLL	Chlorophyll	10.7	mg/m3	1.00
AC03804	LM04	Little Miami Watershed	4	7/16/2012	09:10	MF_CF	Fecal Coliform, Membrane Filter	1	CFU/100mL	
AC03804	LM04	Little Miami Watershed	4	7/16/2012	09:10	E-COLI	E.coli (Colilert)	17	MPN	
AC03804	LM04	Little Miami Watershed	4	7/16/2012	09:10	TDS	Total Dissolved Solids	630	mg/L	
AC03804	LM04	Little Miami Watershed	4	7/16/2012	09:10	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC03804	LM04	Little Miami Watershed	4	7/16/2012	09:10	SO4	Sulfate	98.0	mg/L	12.5
AC03804	LM04	Little Miami Watershed	4	7/16/2012	09:10	CL	Chloride	197	mg/L	5.00
AC03804	LM04	Little Miami Watershed	4	7/16/2012	09:10	TSS	Tot. Suspended Solids	10	mg/L	2
AC03804	LM04	Little Miami Watershed	4	7/16/2012	09:10	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC03804	LM04	Little Miami Watershed	4	7/16/2012	09:10	HARD	Hardness as CaCO3	286	mg/l	
AC03804	LM04	Little Miami Watershed	4	7/16/2012	09:10	COD	COD	51	mg/L	
AC03804	LM04	Little Miami Watershed	4	7/16/2012	09:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	972	uS/cm	
AC03804	LM04	Little Miami Watershed	4	7/16/2012	09:10	TEMP_FLD	Temperature (Field) Celsius	24.01	Deg C	
AC03804	LM04	Little Miami Watershed	4	7/16/2012	09:10	PH_FLD	pH (Field)	7.34	S.U.	
AC03804	LM04	Little Miami Watershed	4	7/16/2012	09:10	DO_FLD	Dissolved Oxygen (field) mg/L	7.81	mg/l	
AC03804	LM04	Little Miami Watershed	4	7/16/2012	09:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	960	uS/cm	
AC03804	LM04	Little Miami Watershed	4	7/16/2012	09:10	NH3	Ammonia as N	0	mg/L	0.5
AC03804	LM04	Little Miami Watershed	4	7/16/2012	09:10	NO3NO2	Nitrate + Nitrite	9.96	mg/L	0.5
AC03804	LM04	Little Miami Watershed	4	7/16/2012	09:10	TKN	Total Kjeldahl Nitrogen	1.157	mg/L	0.5
AC03804	LM04	Little Miami Watershed	4	7/16/2012	09:10	TKP	Total Kjeldahl Phosphorus	3.016	mg/L	0.5
AC03804	LM04	Little Miami Watershed	4	7/16/2012	09:10	NO2	Nitrite as N	0.1442	mg/l	0.005
AC03804	LM04	Little Miami Watershed	4	7/16/2012	09:10	NO3	Nitrate as N (calculated)	9.8162	mg/l	
AC03804	LM04	Little Miami Watershed	4	7/16/2012	09:10	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC03805	LM05	Little Miami Watershed	5 (3261-08)	7/16/2012	09:20	MF_CF	Fecal Coliform, Membrane Filter	900	CFU/100mL	
AC03805	LM05	Little Miami Watershed	5 (3261-08)	7/16/2012	09:20	E-COLI	E.coli (Colilert)	328	MPN	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03805	LM05	Little Miami Watershed	5 (3261-08)	7/16/2012	09:20	TDS	Total Dissolved Solids	420	mg/L	
AC03805	LM05	Little Miami Watershed	5 (3261-08)	7/16/2012	09:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03805	LM05	Little Miami Watershed	5 (3261-08)	7/16/2012	09:20	SO4	Sulfate	52.8	mg/L	12.50
AC03805	LM05	Little Miami Watershed	5 (3261-08)	7/16/2012	09:20	CL	Chloride	85.2	mg/L	1.00
AC03805	LM05	Little Miami Watershed	5 (3261-08)	7/16/2012	09:20	TSS	Tot. Suspended Solids	18	mg/L	2
AC03805	LM05	Little Miami Watershed	5 (3261-08)	7/16/2012	09:20	SSC	Suspended Sediment Concentration	16.0	mg/L	5.0
AC03805	LM05	Little Miami Watershed	5 (3261-08)	7/16/2012	09:20	HARD	Hardness as CaCO3	260	mg/l	
AC03805	LM05	Little Miami Watershed	5 (3261-08)	7/16/2012	09:20	COD	COD	35	mg/L	
AC03805	LM05	Little Miami Watershed	5 (3261-08)	7/16/2012	09:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	732	uS/cm	
AC03805	LM05	Little Miami Watershed	5 (3261-08)	7/16/2012	09:20	TEMP_FLD	Temperature (Field) Celsius	26.36	Deg C	
AC03805	LM05	Little Miami Watershed	5 (3261-08)	7/16/2012	09:20	PH_FLD	pH (Field)	7.99	S.U.	
AC03805	LM05	Little Miami Watershed	5 (3261-08)	7/16/2012	09:20	DO_FLD	Dissolved Oxygen (field) mg/L	7.43	mg/l	
AC03805	LM05	Little Miami Watershed	5 (3261-08)	7/16/2012	09:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	713	uS/cm	
AC03805	LM05	Little Miami Watershed	5 (3261-08)	7/16/2012	09:20	NH3	Ammonia as N	0	mg/L	0.5
AC03805	LM05	Little Miami Watershed	5 (3261-08)	7/16/2012	09:20	NO3NO2	Nitrate + Nitrite	1.53	mg/L	0.5
AC03805	LM05	Little Miami Watershed	5 (3261-08)	7/16/2012	09:20	TKN	Total Kjeldahl Nitrogen	0.6564	mg/L	0.5
AC03805	LM05	Little Miami Watershed	5 (3261-08)	7/16/2012	09:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03805	LM05	Little Miami Watershed	5 (3261-08)	7/16/2012	09:20	NO2	Nitrite as N	0.0221	mg/l	0.005
AC03805	LM05	Little Miami Watershed	5 (3261-08)	7/16/2012	09:20	NO3	Nitrate as N (calculated)	1.5079	mg/l	
AC03805	LM05	Little Miami Watershed	5 (3261-08)	7/16/2012	09:20	CHLOROPHYLL	Chlorophyll	14.4	mg/m3	1.00
AC03806	LM06	Little Miami Watershed	6 (3261-07)	7/16/2012	09:40	MF_CF	Fecal Coliform, Membrane Filter	200	CFU/100mL	
AC03806	LM06	Little Miami Watershed	6 (3261-07)	7/16/2012	09:40	E-COLI	E.coli (Colilert)	152	MPN	
AC03806	LM06	Little Miami Watershed	6 (3261-07)	7/16/2012	09:40	TDS	Total Dissolved Solids	430	mg/L	
AC03806	LM06	Little Miami Watershed	6 (3261-07)	7/16/2012	09:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03806	LM06	Little Miami Watershed	6 (3261-07)	7/16/2012	09:40	SO4	Sulfate	52.5	mg/L	12.50
AC03806	LM06	Little Miami Watershed	6 (3261-07)	7/16/2012	09:40	CL	Chloride	90.4	mg/L	1.00
AC03806	LM06	Little Miami Watershed	6 (3261-07)	7/16/2012	09:40	TSS	Tot. Suspended Solids	22	mg/L	2
AC03806	LM06	Little Miami Watershed	6 (3261-07)	7/16/2012	09:40	SSC	Suspended Sediment Concentration	14.0	mg/L	5.0
AC03806	LM06	Little Miami Watershed	6 (3261-07)	7/16/2012	09:40	HARD	Hardness as CaCO3	278	mg/l	
AC03806	LM06	Little Miami Watershed	6 (3261-07)	7/16/2012	09:40	COD	COD	34	mg/L	
AC03806	LM06	Little Miami Watershed	6 (3261-07)	7/16/2012	09:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	754	uS/cm	
AC03806	LM06	Little Miami Watershed	6 (3261-07)	7/16/2012	09:40	TEMP_FLD	Temperature (Field) Celsius	26.61	Deg C	
AC03806	LM06	Little Miami Watershed	6 (3261-07)	7/16/2012	09:40	PH_FLD	pH (Field)	7.91	S.U.	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03806	LM06	Little Miami Watershed	6 (3261-07)	7/16/2012	09:40	DO_FLD	Dissolved Oxygen (field) mg/L	6.43	mg/l	
AC03806	LM06	Little Miami Watershed	6 (3261-07)	7/16/2012	09:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	732	uS/cm	
AC03806	LM06	Little Miami Watershed	6 (3261-07)	7/16/2012	09:40	NH3	Ammonia as N	0	mg/L	0.5
AC03806	LM06	Little Miami Watershed	6 (3261-07)	7/16/2012	09:40	NO3NO2	Nitrate + Nitrite	1.54	mg/L	0.5
AC03806	LM06	Little Miami Watershed	6 (3261-07)	7/16/2012	09:40	TKN	Total Kjeldahl Nitrogen	0.6216	mg/L	0.5
AC03806	LM06	Little Miami Watershed	6 (3261-07)	7/16/2012	09:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03806	LM06	Little Miami Watershed	6 (3261-07)	7/16/2012	09:40	NO2	Nitrite as N	0.0233	mg/l	0.005
AC03806	LM06	Little Miami Watershed	6 (3261-07)	7/16/2012	09:40	NO3	Nitrate as N (calculated)	1.5167	mg/l	
AC03806	LM06	Little Miami Watershed	6 (3261-07)	7/16/2012	09:40	CHLOROPHYLL	Chlorophyll	12.8	mg/m3	1.00
AC03807	LM08	Little Miami Watershed	8 (3261-06)	7/16/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	200	CFU/100mL	
AC03807	LM08	Little Miami Watershed	8 (3261-06)	7/16/2012	10:00	E-COLI	E.coli (Colilert)	155	MPN	
AC03807	LM08	Little Miami Watershed	8 (3261-06)	7/16/2012	10:00	TDS	Total Dissolved Solids	320	mg/L	
AC03807	LM08	Little Miami Watershed	8 (3261-06)	7/16/2012	10:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03807	LM08	Little Miami Watershed	8 (3261-06)	7/16/2012	10:00	SO4	Sulfate	58.0	mg/L	25.0
AC03807	LM08	Little Miami Watershed	8 (3261-06)	7/16/2012	10:00	CL	Chloride	97.4	mg/L	1.00
AC03807	LM08	Little Miami Watershed	8 (3261-06)	7/16/2012	10:00	TSS	Tot. Suspended Solids	16	mg/L	2
AC03807	LM08	Little Miami Watershed	8 (3261-06)	7/16/2012	10:00	SSC	Suspended Sediment Concentration	14.0	mg/L	5.0
AC03807	LM08	Little Miami Watershed	8 (3261-06)	7/16/2012	10:00	HARD	Hardness as CaCO3	284	mg/l	
AC03807	LM08	Little Miami Watershed	8 (3261-06)	7/16/2012	10:00	COD	COD	41	mg/L	
AC03807	LM08	Little Miami Watershed	8 (3261-06)	7/16/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	804	uS/cm	
AC03807	LM08	Little Miami Watershed	8 (3261-06)	7/16/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	27.39	Deg C	
AC03807	LM08	Little Miami Watershed	8 (3261-06)	7/16/2012	10:00	PH_FLD	pH (Field)	8.15	S.U.	
AC03807	LM08	Little Miami Watershed	8 (3261-06)	7/16/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	8.15	mg/l	
AC03807	LM08	Little Miami Watershed	8 (3261-06)	7/16/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	769	uS/cm	
AC03807	LM08	Little Miami Watershed	8 (3261-06)	7/16/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC03807	LM08	Little Miami Watershed	8 (3261-06)	7/16/2012	10:00	NO3NO2	Nitrate + Nitrite	1.79	mg/L	0.5
AC03807	LM08	Little Miami Watershed	8 (3261-06)	7/16/2012	10:00	TKN	Total Kjeldahl Nitrogen	0.7065	mg/L	0.5
AC03807	LM08	Little Miami Watershed	8 (3261-06)	7/16/2012	10:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03807	LM08	Little Miami Watershed	8 (3261-06)	7/16/2012	10:00	NO2	Nitrite as N	0.0223	mg/l	0.005
AC03807	LM08	Little Miami Watershed	8 (3261-06)	7/16/2012	10:00	NO3	Nitrate as N (calculated)	1.7677	mg/l	
AC03807	LM08	Little Miami Watershed	8 (3261-06)	7/16/2012	10:00	CHLOROPHYLL	Chlorophyll	10.7	mg/m3	1.00
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	E-COLI	E.coli (Colilert)	2420	MPN	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	TDS	Total Dissolved Solids	490	mg/L	
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	BOD	Biochemical Oxygen Demand	5	mg/L	2
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	SO4	Sulfate	85.5	mg/L	25.0
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	CL	Chloride	99.1	mg/L	1.00
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	TSS	Tot. Suspended Solids	70	mg/L	2
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	SSC	Suspended Sediment Concentration	66.0	mg/L	5.0
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	HARD	Hardness as CaCO3	246	mg/l	
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	COD	COD	65	mg/L	
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	791	uS/cm	
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	TEMP_FLD	Temperature (Field) Celsius	26.98	Deg C	
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	PH_FLD	pH (Field)	7.27	S.U.	
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	DO_FLD	Dissolved Oxygen (field) mg/L	4.02	mg/l	
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	764	uS/cm	
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	\$ICP	Aluminum	0.452	mg/L	0.348
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	\$ICP	Antimony	0.00	mg/L	0.006
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	\$ICP	Arsenic	0.0606	mg/L	0.012
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	\$ICP	Barium	0.0594	mg/L	0.003
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	\$ICP	Calcium	74.1	mg/L	0.066
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	\$ICP	Chromium	0.00	mg/L	0.006
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	\$ICP	Copper	0.00989	mg/L	0.006
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	\$ICP	Iron	1.03	mg/L	0.018
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	\$ICP	Lead	0.0106	mg/L	0.006
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	\$ICP	Magnesium	18.8	mg/L	0.021
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	\$ICP	Manganese	0.187	mg/L	0.009
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	\$ICP	Nickel	0.00	mg/L	0.003
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	\$ICP	Selenium	0.0213	mg/L	0.009
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	\$ICP	Silver	0.00	mg/L	0.003
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	\$ICP	Strontium	0.288	mg/L	0.009
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	\$ICP	Thallium	0.00	mg/L	0.012
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	\$ICP	Tin	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	\$ICP	Zinc	0.0378	mg/L	0.006
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	PB_FU	Lead by Furnace	7.484	ug/L	0.5
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	AS_FU	Arsenic by Furnace	10.61	ug/L	1.0
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	CU_FU	Copper by Furnace	13.5	ug/L	1
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	NH3	Ammonia as N	0	mg/L	0.5
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	TKN	Total Kjeldahl Nitrogen	0.9311	mg/L	0.5
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	NO2	Nitrite as N	0.0103	mg/l	0.005
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03881	LM79	Little Miami Watershed	79	7/17/2012	10:50	CHLOROPHYLL	Chlorophyll	27.2	mg/m3	1.00
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	MF_CF	Fecal Coliform, Membrane Filter	380	CFU/100mL	
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	E-COLI	E.coli (Colilert)	1046	MPN	
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	TDS	Total Dissolved Solids	580	mg/L	
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	SO4	Sulfate	87.5	mg/L	25.0
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	CL	Chloride	122	mg/L	2.0
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	TSS	Tot. Suspended Solids	6	mg/L	2
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	SSC	Suspended Sediment Concentration	14.0	mg/L	5.0
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	HARD	Hardness as CaCO3	334	mg/l	
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	COD	COD	65	mg/L	
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	982	uS/cm	
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	TEMP_FLD	Temperature (Field) Celsius	28.11	Deg C	
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	PH_FLD	pH (Field)	7.58	S.U.	
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	DO_FLD	Dissolved Oxygen (field) mg/L	6.30	mg/l	
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	CONDUCTIVITY	Specific Conductivity (uS/cm)	928	uS/cm	
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	\$ICP	Aluminum	0.00	mg/L	0.348
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	\$ICP	Antimony	0.00934	mg/L	0.006
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	\$ICP	Arsenic	0.0504	mg/L	0.012
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	\$ICP	Barium	0.0606	mg/L	0.003
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	\$ICP	Beryllium	0.00	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	\$ICP	Cadmium	0.00	mg/L	0.012
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	\$ICP	Calcium	104	mg/L	0.066
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	\$ICP	Chromium	0.00	mg/L	0.006
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	\$ICP	Cobalt	0.00	mg/L	0.006
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	\$ICP	Copper	0.00	mg/L	0.006
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	\$ICP	Iron	0.300	mg/L	0.018
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	\$ICP	Lead	0.0152	mg/L	0.006
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	\$ICP	Magnesium	25.5	mg/L	0.021
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	\$ICP	Manganese	0.115	mg/L	0.009
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	\$ICP	Nickel	0.00	mg/L	0.003
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	\$ICP	Selenium	0.0931	mg/L	0.009
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	\$ICP	Silver	0.00	mg/L	0.003
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	\$ICP	Strontium	0.348	mg/L	0.009
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	\$ICP	Thallium	0.00	mg/L	0.012
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	\$ICP	Tin	0.00	mg/L	0.006
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	\$ICP	Vanadium	0.00	mg/L	0.018
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	\$ICP	Zinc	0.00829	mg/L	0.006
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	AS_FU	Arsenic by Furnace	16.02	ug/L	1.0
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	CU_FU	Copper by Furnace	4.4	ug/L	1
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	NH3	Ammonia as N	0	mg/L	0.5
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	TKN	Total Kjeldahl Nitrogen	0.6963	mg/L	0.5
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	NO2	Nitrite as N	0.0208	mg/l	0.005
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03882	LM77	Little Miami Watershed	77	7/17/2012	11:05	CHLOROPHYLL	Chlorophyll	47.5	mg/m3	1.00
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	MF_CF	Fecal Coliform, Membrane Filter	1600	CFU/100mL	
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	E-COLI	E.coli (Colilert)	345	MPN	
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	TDS	Total Dissolved Solids	730	mg/L	
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	SO4	Sulfate	114	mg/L	25.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	CL	Chloride	142	mg/L	4.0
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	TSS	Tot. Suspended Solids	12	mg/L	2
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	SSC	Suspended Sediment Concentration	20.0	mg/L	5.0
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	HARD	Hardness as CaCO3	382	mg/l	
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	COD	COD	12	mg/L	
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	894	uS/cm	
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	TEMP_FLD	Temperature (Field) Celsius	26.64	Deg C	
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	PH_FLD	pH (Field)	7.90	S.U.	
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	DO_FLD	Dissolved Oxygen (field) mg/L	18.41	mg/l	
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	866	uS/cm	
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	\$ICP	Aluminum	0.00	mg/L	0.348
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	\$ICP	Antimony	0.00	mg/L	0.006
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	\$ICP	Arsenic	0.0659	mg/L	0.012
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	\$ICP	Barium	0.0711	mg/L	0.003
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	\$ICP	Calcium	134	mg/L	0.066
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	\$ICP	Chromium	0.00	mg/L	0.006
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	\$ICP	Copper	0.00	mg/L	0.006
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	\$ICP	Iron	0.164	mg/L	0.018
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	\$ICP	Lead	0.0100	mg/L	0.006
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	\$ICP	Magnesium	30.0	mg/L	0.021
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	\$ICP	Manganese	0.0474	mg/L	0.009
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	\$ICP	Nickel	0.00	mg/L	0.003
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	\$ICP	Selenium	0.0591	mg/L	0.009
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	\$ICP	Silver	0.00	mg/L	0.003
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	\$ICP	Strontium	0.399	mg/L	0.009
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	\$ICP	Thallium	0.00	mg/L	0.012
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	\$ICP	Tin	0.00	mg/L	0.006
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	\$ICP	Zinc	0.0158	mg/L	0.006
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	PB_FU	Lead by Furnace	0	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	AS_FU	Arsenic by Furnace	11.91	ug/L	1.0
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	CU_FU	Copper by Furnace	4.6	ug/L	1
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	NH3	Ammonia as N	0	mg/L	0.5
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	NO3NO2	Nitrate + Nitrite	0.753	mg/L	0.5
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	TKN	Total Kjeldahl Nitrogen	0.5892	mg/L	0.5
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	NO2	Nitrite as N	0.0460	mg/l	0.005
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	NO3	Nitrate as N (calculated)	0.7070	mg/l	
AC03883	LM76	Little Miami Watershed	76	7/17/2012	11:15	CHLOROPHYLL	Chlorophyll	14.4	mg/m3	1.00
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	MF_CF	Fecal Coliform, Membrane Filter	1667	CFU/100mL	
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	E-COLI	E.coli (Colilert)	548	MPN	
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	TDS	Total Dissolved Solids	570	mg/L	
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	SO4	Sulfate	125	mg/L	25.0
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	CL	Chloride	128	mg/L	4.0
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	TSS	Tot. Suspended Solids	10	mg/L	2
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	SSC	Suspended Sediment Concentration	46.0	mg/L	5.0
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	HARD	Hardness as CaCO3	330	mg/l	
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	COD	COD	6	mg/L	
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1129	uS/cm	
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	TEMP_FLD	Temperature (Field) Celsius	26.03	Deg C	
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	PH_FLD	pH (Field)	7.90	S.U.	
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	DO_FLD	Dissolved Oxygen (field) mg/L	9.00	mg/l	
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	1108	uS/cm	
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	\$ICP	Antimony	0.00	mg/L	0.006
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	\$ICP	Arsenic	0.0714	mg/L	0.012
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	\$ICP	Barium	0.0719	mg/L	0.003
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	\$ICP	Calcium	136	mg/L	0.066
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	\$ICP	Chromium	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	\$ICP	Copper	0.00668	mg/L	0.006
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	\$ICP	Iron	0.368	mg/L	0.018
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	\$ICP	Lead	0.00740	mg/L	0.006
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	\$ICP	Magnesium	29.8	mg/L	0.021
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	\$ICP	Manganese	0.0866	mg/L	0.009
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	\$ICP	Nickel	0.00	mg/L	0.003
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	\$ICP	Selenium	0.0969	mg/L	0.009
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	\$ICP	Silver	0.00	mg/L	0.003
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	\$ICP	Strontium	0.389	mg/L	0.009
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	\$ICP	Thallium	0.00	mg/L	0.012
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	\$ICP	Tin	0.00	mg/L	0.006
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	\$ICP	Zinc	0.110	mg/L	0.006
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	PB_FU	Lead by Furnace	2.018	ug/L	0.5
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	AS_FU	Arsenic by Furnace	10.29	ug/L	1.0
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	CU_FU	Copper by Furnace	16.8	ug/L	1
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	NO3NO2	Nitrate + Nitrite	1.19	mg/L	0.5
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	TKN	Total Kjeldahl Nitrogen	0.7382	mg/L	0.5
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	NO2	Nitrite as N	0.0142	mg/l	0.005
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	NO3	Nitrate as N (calculated)	1.1758	mg/l	
AC03884	LM75	Little Miami Watershed	75	7/17/2012	11:30	CHLOROPHYLL	Chlorophyll	5.34	mg/m3	1.00
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	MF_CF	Fecal Coliform, Membrane Filter	4200	CFU/100mL	
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	E-COLI	E.coli (Colilert)	2420	MPN	
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	TDS	Total Dissolved Solids	560	mg/L	
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	BOD	Biochemical Oxygen Demand	6	mg/L	2
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	SO4	Sulfate	110	mg/L	25.0
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	CL	Chloride	191	mg/L	5.0
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	TSS	Tot. Suspended Solids	6	mg/L	2
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	SSC	Suspended Sediment Concentration	AA	mg/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	HARD	Hardness as CaCO3	360	mg/l	
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	COD	COD	7	mg/L	
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1185	uS/cm	
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	TEMP_FLD	Temperature (Field) Celsius	25.57	Deg C	
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	PH_FLD	pH (Field)	7.84	S.U.	
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	DO_FLD	Dissolved Oxygen (field) mg/L	5.11	mg/l	
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	1219	uS/cm	
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	\$ICP	Antimony	0.00	mg/L	0.006
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	\$ICP	Arsenic	0.0687	mg/L	0.012
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	\$ICP	Barium	0.0518	mg/L	0.003
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	\$ICP	Calcium	109	mg/L	0.066
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	\$ICP	Chromium	0.00	mg/L	0.006
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	\$ICP	Copper	0.00	mg/L	0.006
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	\$ICP	Iron	0.170	mg/L	0.018
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	\$ICP	Lead	0.00772	mg/L	0.006
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	\$ICP	Magnesium	25.9	mg/L	0.021
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	\$ICP	Manganese	0.0904	mg/L	0.009
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	\$ICP	Nickel	0.00	mg/L	0.003
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	\$ICP	Selenium	0.0416	mg/L	0.009
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	\$ICP	Silver	0.00	mg/L	0.003
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	\$ICP	Strontium	0.393	mg/L	0.009
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	\$ICP	Thallium	0.00	mg/L	0.012
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	\$ICP	Tin	0.00	mg/L	0.006
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	\$ICP	Zinc	0.0128	mg/L	0.006
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	AS_FU	Arsenic by Furnace	0.931	ug/L	1.0
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	CU_FU	Copper by Furnace	3.7	ug/L	1



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	NH3	Ammonia as N	0	mg/L	0.5
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	NO2	Nitrite as N	0.0209	mg/l	0.005
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03885	LM74	Little Miami Watershed	74	7/17/2012	12:00	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	MF_CF	Fecal Coliform, Membrane Filter	1100	CFU/100mL	
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	E-COLI	E.coli (Colilert)	980	MPN	
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	TDS	Total Dissolved Solids	580	mg/L	
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	BOD	Biochemical Oxygen Demand	7	mg/L	2
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	SO4	Sulfate	75.5	mg/L	25.0
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	CL	Chloride	251	mg/L	5.0
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	TSS	Tot. Suspended Solids	52	mg/L	2
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	SSC	Suspended Sediment Concentration	8.0	mg/L	5.0
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	HARD	Hardness as CaCO3	274	mg/l	
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	COD	COD	52	mg/L	
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1089	uS/cm	
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	TEMP_FLD	Temperature (Field) Celsius	31.81	Deg C	
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	PH_FLD	pH (Field)	8.20	S.U.	
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	DO_FLD	Dissolved Oxygen (field) mg/L	11.78	mg/l	
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	964	uS/cm	
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	\$ICP	Aluminum	0.00	mg/L	0.348
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	\$ICP	Antimony	0.00	mg/L	0.006
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	\$ICP	Arsenic	0.199	mg/L	0.012
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	\$ICP	Barium	0.0899	mg/L	0.003
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	\$ICP	Calcium	72.2	mg/L	0.066
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	\$ICP	Chromium	0.00	mg/L	0.006
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	\$ICP	Copper	0.00	mg/L	0.006
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	\$ICP	Iron	0.886	mg/L	0.018

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	\$ICP	Lead	0.00690	mg/L	0.006
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	\$ICP	Magnesium	23.2	mg/L	0.021
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	\$ICP	Manganese	0.783	mg/L	0.009
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	\$ICP	Nickel	0.00	mg/L	0.003
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	\$ICP	Selenium	0.0302	mg/L	0.009
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	\$ICP	Silver	0.00	mg/L	0.003
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	\$ICP	Strontium	0.365	mg/L	0.009
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	\$ICP	Thallium	0.00	mg/L	0.012
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	\$ICP	Tin	0.00	mg/L	0.006
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	\$ICP	Zinc	0.00702	mg/L	0.006
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	PB_FU	Lead by Furnace	19.75	ug/L	0.5
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	AS_FU	Arsenic by Furnace	160.6	ug/L	1.0
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	CU_FU	Copper by Furnace	5.0	ug/L	1
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	NH3	Ammonia as N	0	mg/L	0.5
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	TKN	Total Kjeldahl Nitrogen	1.616	mg/L	0.5
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	TKP	Total Kjeldahl Phosphorus	0.6261	mg/L	0.5
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	NO2	Nitrite as N	0.0055	mg/l	0.005
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03886	LM73	Little Miami Watershed	73	7/17/2012	12:15	CHLOROPHYLL	Chlorophyll	26.1	mg/m3	1.00
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	MF_CF	Fecal Coliform, Membrane Filter	4000	CFU/100mL	
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	E-COLI	E.coli (Colilert)	2420	MPN	
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	TDS	Total Dissolved Solids	730	mg/L	
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	SO4	Sulfate	136	mg/L	25.0
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	CL	Chloride	301	mg/L	5.0
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	TSS	Tot. Suspended Solids	164	mg/L	2
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	SSC	Suspended Sediment Concentration	37.0	mg/L	5.0
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	HARD	Hardness as CaCO3	258	mg/l	
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	COD	COD	65	mg/L	
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1166	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	TEMP_FLD	Temperature (Field) Celsius	28.00	Deg C	
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	PH_FLD	pH (Field)	8.01	S.U.	
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	DO_FLD	Dissolved Oxygen (field) mg/L	6.85	mg/l	
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	1102	uS/cm	
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	\$ICP	Aluminum	0.521	mg/L	0.348
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	\$ICP	Antimony	0.00	mg/L	0.006
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	\$ICP	Arsenic	0.383	mg/L	0.012
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	\$ICP	Barium	0.159	mg/L	0.003
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	\$ICP	Calcium	127	mg/L	0.066
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	\$ICP	Chromium	0.00	mg/L	0.006
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	\$ICP	Copper	0.0378	mg/L	0.006
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	\$ICP	Iron	2.62	mg/L	0.018
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	\$ICP	Lead	0.0326	mg/L	0.006
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	\$ICP	Magnesium	33.3	mg/L	0.021
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	\$ICP	Manganese	0.537	mg/L	0.009
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	\$ICP	Nickel	0.00	mg/L	0.003
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	\$ICP	Selenium	0.0789	mg/L	0.009
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	\$ICP	Silver	0.00	mg/L	0.003
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	\$ICP	Strontium	0.542	mg/L	0.009
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	\$ICP	Thallium	0.00	mg/L	0.012
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	\$ICP	Tin	0.00	mg/L	0.006
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	\$ICP	Zinc	0.109	mg/L	0.006
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	AS_FU	Arsenic by Furnace	296.9	ug/L	1.0
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	CU_FU	Copper by Furnace	54.4	ug/L	1
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	NH3	Ammonia as N	0	mg/L	0.5
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	TKN	Total Kjeldahl Nitrogen	5.5892	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	TKP	Total Kjeldahl Phosphorus	1.444	mg/L	0.5
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	NO2	Nitrite as N	0.0082	mg/l	0.005
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03887	LM78	Little Miami Watershed	78	7/17/2012	12:40	CHLOROPHYLL	Chlorophyll	43.2	mg/m3	1.00
AC03952	LM46	Little Miami Watershed	46	7/18/2012	08:05	MF_CF	Fecal Coliform, Membrane Filter	525	CFU/100mL	
AC03952	LM46	Little Miami Watershed	46	7/18/2012	08:05	E-COLI	E.coli (Colilert)	461	MPN	
AC03952	LM46	Little Miami Watershed	46	7/18/2012	08:05	TDS	Total Dissolved Solids	830	mg/L	
AC03952	LM46	Little Miami Watershed	46	7/18/2012	08:05	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03952	LM46	Little Miami Watershed	46	7/18/2012	08:05	SO4	Sulfate	78.0	mg/L	25.0
AC03952	LM46	Little Miami Watershed	46	7/18/2012	08:05	CL	Chloride	147	mg/L	5.00
AC03952	LM46	Little Miami Watershed	46	7/18/2012	08:05	TSS	Tot. Suspended Solids	8	mg/L	2
AC03952	LM46	Little Miami Watershed	46	7/18/2012	08:05	SSC	Suspended Sediment Concentration	5.0	mg/L	5.0
AC03952	LM46	Little Miami Watershed	46	7/18/2012	08:05	HARD	Hardness as CaCO3	302	mg/l	
AC03952	LM46	Little Miami Watershed	46	7/18/2012	08:05	COD	COD	30	mg/L	
AC03952	LM46	Little Miami Watershed	46	7/18/2012	08:05	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	986	uS/cm	
AC03952	LM46	Little Miami Watershed	46	7/18/2012	08:05	TEMP_FLD	Temperature (Field) Celsius	23.65	Deg C	
AC03952	LM46	Little Miami Watershed	46	7/18/2012	08:05	PH_FLD	pH (Field)	7.77	S.U.	
AC03952	LM46	Little Miami Watershed	46	7/18/2012	08:05	DO_FLD	Dissolved Oxygen (field) mg/L	7.09	mg/l	
AC03952	LM46	Little Miami Watershed	46	7/18/2012	08:05	CONDUCTIVITY	Specific Conductivity (uS/cm)	1012	uS/cm	
AC03952	LM46	Little Miami Watershed	46	7/18/2012	08:05	NH3	Ammonia as N	0	mg/L	0.5
AC03952	LM46	Little Miami Watershed	46	7/18/2012	08:05	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03952	LM46	Little Miami Watershed	46	7/18/2012	08:05	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC03952	LM46	Little Miami Watershed	46	7/18/2012	08:05	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03952	LM46	Little Miami Watershed	46	7/18/2012	08:05	NO2	Nitrite as N	0.0048	mg/l	0.005
AC03952	LM46	Little Miami Watershed	46	7/18/2012	08:05	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03952	LM46	Little Miami Watershed	46	7/18/2012	08:05	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	MF_CF	Fecal Coliform, Membrane Filter	450	CFU/100mL	
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	E-COLI	E.coli (Colilert)	291	MPN	
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	TDS	Total Dissolved Solids	610	mg/L	
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	SO4	Sulfate	91.5	mg/L	25.0
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	CL	Chloride	186	mg/L	5.00
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	TSS	Tot. Suspended Solids	10	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	HARD	Hardness as CaCO3	400	mg/l	
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	COD	COD	39	mg/L	
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1085	uS/cm	
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	TEMP_FLD	Temperature (Field) Celsius	25.05	Deg C	
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	PH_FLD	pH (Field)	7.71	S.U.	
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	DO_FLD	Dissolved Oxygen (field) mg/L	6.11	mg/l	
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	1081	uS/cm	
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	\$ICP	Aluminum	0.00	mg/L	0.348
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	\$ICP	Antimony	0.00	mg/L	0.006
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	\$ICP	Arsenic	0.0644	mg/L	0.012
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	\$ICP	Barium	0.0528	mg/L	0.003
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	\$ICP	Calcium	102	mg/L	0.066
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	\$ICP	Chromium	0.00	mg/L	0.006
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	\$ICP	Copper	0.00	mg/L	0.006
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	\$ICP	Iron	0.0421	mg/L	0.018
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	\$ICP	Lead	0.00870	mg/L	0.006
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	\$ICP	Magnesium	23.6	mg/L	0.021
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	\$ICP	Manganese	0.0252	mg/L	0.009
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	\$ICP	Nickel	0.00	mg/L	0.003
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	\$ICP	Selenium	0.0530	mg/L	0.009
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	\$ICP	Silver	0.00	mg/L	0.003
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	\$ICP	Strontium	0.343	mg/L	0.009
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	\$ICP	Thallium	0.00	mg/L	0.012
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	\$ICP	Tin	0.00	mg/L	0.006
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	\$ICP	Zinc	0.00	mg/L	0.006
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	AS_FU	Arsenic by Furnace	0.939	ug/L	1.0
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	CD_FU	Cadmium by Furnace	0	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	CU_FU	Copper by Furnace	3.6	ug/L	1
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	NH3	Ammonia as N	0	mg/L	0.5
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	TKN	Total Kjeldahl Nitrogen	0.2325	mg/L	0.5
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	NO2	Nitrite as N	0.0099	mg/l	0.005
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03953	LM58	Little Miami Watershed	58	7/18/2012	09:10	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	MF_CF	Fecal Coliform, Membrane Filter	490	CFU/100mL	
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	E-COLI	E.coli (Colilert)	147	MPN	
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	TDS	Total Dissolved Solids	590	mg/L	
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	SO4	Sulfate	86.0	mg/L	25.0
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	CL	Chloride	244	mg/L	5.00
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	TSS	Tot. Suspended Solids	10	mg/L	2
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	HARD	Hardness as CaCO3	366	mg/l	
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	COD	COD	67	mg/L	
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	947	uS/cm	
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	TEMP_FLD	Temperature (Field) Celsius	24.99	Deg C	
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	PH_FLD	pH (Field)	7.59	S.U.	
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	DO_FLD	Dissolved Oxygen (field) mg/L	6.81	mg/l	
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	947	uS/cm	
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	\$ICP	Antimony	0.00	mg/L	0.006
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	\$ICP	Arsenic	0.0315	mg/L	0.012
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	\$ICP	Barium	0.0548	mg/L	0.003
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	\$ICP	Calcium	74.3	mg/L	0.066
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	\$ICP	Chromium	0.00	mg/L	0.006
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	\$ICP	Copper	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	\$ICP	Iron	0.0595	mg/L	0.018
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	\$ICP	Lead	0.00676	mg/L	0.006
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	\$ICP	Magnesium	22.1	mg/L	0.021
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	\$ICP	Manganese	0.0248	mg/L	0.009
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	\$ICP	Nickel	0.00	mg/L	0.003
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	\$ICP	Selenium	0.0470	mg/L	0.009
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	\$ICP	Silver	0.00	mg/L	0.003
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	\$ICP	Strontium	0.328	mg/L	0.009
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	\$ICP	Thallium	0.0126	mg/L	0.012
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	\$ICP	Tin	0.00	mg/L	0.006
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	\$ICP	Zinc	0.00	mg/L	0.006
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	AS_FU	Arsenic by Furnace	2.616	ug/L	1.0
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	CU_FU	Copper by Furnace	4.8	ug/L	1
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	NH3	Ammonia as N	0	mg/L	0.5
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	NO2	Nitrite as N	0.0070	mg/l	0.005
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03954	LM57	Little Miami Watershed	57	7/18/2012	09:30	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	MF_CF	Fecal Coliform, Membrane Filter	300	CFU/100mL	
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	E-COLI	E.coli (Colilert)	308	MPN	
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	TDS	Total Dissolved Solids	570	mg/L	
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	SO4	Sulfate	110	mg/L	25.00
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	CL	Chloride	244	mg/L	5.00
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	TSS	Tot. Suspended Solids	26	mg/L	2
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	SSC	Suspended Sediment Concentration	45.0	mg/L	5.0
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	HARD	Hardness as CaCO3	274	mg/l	
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	COD	COD	35	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	931	uS/cm	
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	TEMP_FLD	Temperature (Field) Celsius	25.27	Deg C	
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	PH_FLD	pH (Field)	7.31	S.U.	
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	DO_FLD	Dissolved Oxygen (field) mg/L	7.61	mg/l	
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	926	uS/cm	
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	\$ICP	Aluminum	0.352	mg/L	0.348
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	\$ICP	Antimony	0.00815	mg/L	0.006
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	\$ICP	Arsenic	0.0399	mg/L	0.012
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	\$ICP	Barium	0.0247	mg/L	0.003
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	\$ICP	Calcium	64.2	mg/L	0.066
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	\$ICP	Chromium	0.00	mg/L	0.006
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	\$ICP	Copper	0.00	mg/L	0.006
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	\$ICP	Iron	0.584	mg/L	0.018
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	\$ICP	Lead	0.00796	mg/L	0.006
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	\$ICP	Magnesium	18.7	mg/L	0.021
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	\$ICP	Manganese	0.0510	mg/L	0.009
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	\$ICP	Nickel	0.00	mg/L	0.003
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	\$ICP	Selenium	0.0188	mg/L	0.009
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	\$ICP	Silver	0.00	mg/L	0.003
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	\$ICP	Strontium	0.319	mg/L	0.009
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	\$ICP	Thallium	0.0237	mg/L	0.012
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	\$ICP	Tin	0.00	mg/L	0.006
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	\$ICP	Zinc	0.0531	mg/L	0.006
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	AS_FU	Arsenic by Furnace	1.211	ug/L	1.0
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	CU_FU	Copper by Furnace	6.2	ug/L	1
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	NH3	Ammonia as N	0	mg/L	0.5
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	NO3NO2	Nitrate + Nitrite	5.79	mg/L	0.5



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	TKN	Total Kjeldahl Nitrogen	0.6124	mg/L	0.5
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	NO2	Nitrite as N	0.0321	mg/l	0.005
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	NO3	Nitrate as N (calculated)	5.7579	mg/l	
AC03955	LM61	Little Miami Watershed	61	7/18/2012	10:15	CHLOROPHYLL	Chlorophyll	10.2	mg/m3	1.00
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	MF_CF	Fecal Coliform, Membrane Filter	100	CFU/100mL	
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	E-COLI	E.coli (Colilert)	102	MPN	
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	TDS	Total Dissolved Solids	370	mg/L	
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	SO4	Sulfate	40.8	mg/L	12.5
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	CL	Chloride	79.4	mg/L	1.00
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	TSS	Tot. Suspended Solids	7	mg/L	2
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	HARD	Hardness as CaCO3	294	mg/l	
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	COD	COD	28	mg/L	
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	663	uS/cm	
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	TEMP_FLD	Temperature (Field) Celsius	24.97	Deg C	
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	PH_FLD	pH (Field)	7.40	S.U.	
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	DO_FLD	Dissolved Oxygen (field) mg/L	6.20	mg/l	
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	664	uS/cm	
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	\$ICP	Aluminum	0.00	mg/L	0.348
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	\$ICP	Antimony	0.00	mg/L	0.006
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	\$ICP	Arsenic	0.0632	mg/L	0.012
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	\$ICP	Barium	0.0490	mg/L	0.003
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	\$ICP	Beryllium	0.00	mg/L	0.009
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	\$ICP	Cadmium	0.00	mg/L	0.012
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	\$ICP	Calcium	73.8	mg/L	0.066
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	\$ICP	Chromium	0.00	mg/L	0.006
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	\$ICP	Cobalt	0.00	mg/L	0.006
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	\$ICP	Copper	0.00	mg/L	0.006
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	\$ICP	Iron	0.239	mg/L	0.018
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	\$ICP	Lead	0.00	mg/L	0.006
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	\$ICP	Magnesium	15.6	mg/L	0.021

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	\$ICP	Manganese	0.0685	mg/L	0.009
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	\$ICP	Nickel	0.00	mg/L	0.003
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	\$ICP	Selenium	0.0439	mg/L	0.009
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	\$ICP	Silver	0.00	mg/L	0.003
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	\$ICP	Strontium	0.255	mg/L	0.009
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	\$ICP	Thallium	0.0151	mg/L	0.012
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	\$ICP	Tin	0.00	mg/L	0.006
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	\$ICP	Vanadium	0.00	mg/L	0.018
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	\$ICP	Zinc	0.00	mg/L	0.006
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	AS_FU	Arsenic by Furnace	2.337	ug/L	1.0
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	CU_FU	Copper by Furnace	2.5	ug/L	1
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	NH3	Ammonia as N	0	mg/L	0.5
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	NO2	Nitrite as N	0.0059	mg/l	0.005
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03956	LM60	Little Miami Watershed	60	7/18/2012	10:35	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC03957	LM53	Little Miami Watershed	53	7/18/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	157	CFU/100mL	
AC03957	LM53	Little Miami Watershed	53	7/18/2012	11:00	E-COLI	E.coli (Colilert)	93	MPN	
AC03957	LM53	Little Miami Watershed	53	7/18/2012	11:00	TDS	Total Dissolved Solids	440	mg/L	
AC03957	LM53	Little Miami Watershed	53	7/18/2012	11:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03957	LM53	Little Miami Watershed	53	7/18/2012	11:00	SO4	Sulfate	48.5	mg/L	12.5
AC03957	LM53	Little Miami Watershed	53	7/18/2012	11:00	CL	Chloride	73.0	mg/L	1.00
AC03957	LM53	Little Miami Watershed	53	7/18/2012	11:00	TSS	Tot. Suspended Solids	12	mg/L	2
AC03957	LM53	Little Miami Watershed	53	7/18/2012	11:00	SSC	Suspended Sediment Concentration	19.0	mg/L	5.0
AC03957	LM53	Little Miami Watershed	53	7/18/2012	11:00	HARD	Hardness as CaCO3	286	mg/l	
AC03957	LM53	Little Miami Watershed	53	7/18/2012	11:00	COD	COD	35	mg/L	
AC03957	LM53	Little Miami Watershed	53	7/18/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	578	uS/cm	
AC03957	LM53	Little Miami Watershed	53	7/18/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	26.81	Deg C	
AC03957	LM53	Little Miami Watershed	53	7/18/2012	11:00	PH_FLD	pH (Field)	7.62	S.U.	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03957	LM53	Little Miami Watershed	53	7/18/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	559	uS/cm	
AC03957	LM53	Little Miami Watershed	53	7/18/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC03957	LM53	Little Miami Watershed	53	7/18/2012	11:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC03957	LM53	Little Miami Watershed	53	7/18/2012	11:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC03957	LM53	Little Miami Watershed	53	7/18/2012	11:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03957	LM53	Little Miami Watershed	53	7/18/2012	11:00	NO2	Nitrite as N	0.0049	mg/l	0.005
AC03957	LM53	Little Miami Watershed	53	7/18/2012	11:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC03957	LM53	Little Miami Watershed	53	7/18/2012	11:00	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	2200	CFU/100mL	
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	E-COLI	E.coli (Colilert)	148	MPN	
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	TDS	Total Dissolved Solids	440	mg/L	
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	SO4	Sulfate	57.0	mg/L	12.5
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	CL	Chloride	109	mg/L	1.00
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	TSS	Tot. Suspended Solids	3	mg/L	2
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	HARD	Hardness as CaCO3	330	mg/l	
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	COD	COD	31	mg/L	
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	753	uS/cm	
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	26.17	Deg C	
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	PH_FLD	pH (Field)	7.61	S.U.	
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	4.46	mg/l	
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	737	uS/cm	
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	\$ICP	Antimony	0.00	mg/L	0.006
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	\$ICP	Barium	0.0418	mg/L	0.003
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	\$ICP	Calcium	65.5	mg/L	0.066
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	\$ICP	Chromium	0.00	mg/L	0.006
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	\$ICP	Copper	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	\$ICP	Iron	0.0798	mg/L	0.018
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	\$ICP	Lead	0.00821	mg/L	0.006
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	\$ICP	Magnesium	15.4	mg/L	0.021
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	\$ICP	Manganese	0.0256	mg/L	0.009
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	\$ICP	Nickel	0.00	mg/L	0.003
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	\$ICP	Selenium	0.0190	mg/L	0.009
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	\$ICP	Silver	0.00	mg/L	0.003
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	\$ICP	Strontium	0.234	mg/L	0.009
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	\$ICP	Thallium	0.00	mg/L	0.012
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	\$ICP	Tin	0.00	mg/L	0.006
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	\$ICP	Zinc	0.0104	mg/L	0.006
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	PB_FU	Lead by Furnace	0	ug/L	0.5
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	AS_FU	Arsenic by Furnace	1.940	ug/L	1.0
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	CD_FU	Cadmium by Furnace	0	ug/L	1
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	CU_FU	Copper by Furnace	3.6	ug/L	1
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	NO3NO2	Nitrate + Nitrite	0.723	mg/L	0.5
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	NO2	Nitrite as N	0.0062	mg/l	0.005
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	NO3	Nitrate as N (calculated)	0.7168	mg/l	
AC03958	LM59	Little Miami Watershed	59	7/18/2012	10:00	CHLOROPHYLL	Chlorophyll	11.8	mg/m3	1.00
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	MF_CF	Fecal Coliform, Membrane Filter	767	CFU/100mL	
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	E-COLI	E.coli (Colilert)	816	MPN	
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	TDS	Total Dissolved Solids	380	mg/L	
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	SO4	Sulfate	10.9	mg/L	25.0
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	CL	Chloride	35.5	mg/L	1.00
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	TSS	Tot. Suspended Solids	4	mg/L	2
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	HARD	Hardness as CaCO3	212	mg/l	
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	COD	COD	5	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	599	uS/cm	
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	TEMP_FLD	Temperature (Field) Celsius	14.02	Deg C	
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	PH_FLD	pH (Field)	6.78	S.U.	
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	DO_FLD	Dissolved Oxygen (field) mg/L	3.05	mg/l	
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	760	uS/cm	
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	\$ICP	Antimony	0.00	mg/L	0.006
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	\$ICP	Arsenic	0.0304	mg/L	0.012
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	\$ICP	Barium	0.0615	mg/L	0.003
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	\$ICP	Calcium	116	mg/L	0.066
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	\$ICP	Chromium	0.00	mg/L	0.006
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	\$ICP	Copper	0.00	mg/L	0.006
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	\$ICP	Iron	0.160	mg/L	0.018
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	\$ICP	Lead	0.0108	mg/L	0.006
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	\$ICP	Magnesium	21.7	mg/L	0.021
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	\$ICP	Manganese	0.138	mg/L	0.009
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	\$ICP	Nickel	0.00	mg/L	0.003
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	\$ICP	Selenium	0.0533	mg/L	0.009
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	\$ICP	Silver	0.00	mg/L	0.003
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	\$ICP	Strontium	0.238	mg/L	0.009
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	\$ICP	Thallium	0.00	mg/L	0.012
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	\$ICP	Tin	0.00	mg/L	0.006
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	\$ICP	Zinc	0.00639	mg/L	0.006
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	AS_FU	Arsenic by Furnace	0.515	ug/L	1.0
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	CD_FU	Cadmium by Furnace	0	ug/L	1
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	CU_FU	Copper by Furnace	0	ug/L	1
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	NH3	Ammonia as N	0	mg/L	0.5
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	NO3NO2	Nitrate + Nitrite	1.11	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	TKN	Total Kjeldahl Nitrogen	1.055	mg/L	0.5
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	TKP	Total Kjeldahl Phosphorus	0.5280	mg/L	0.5
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	NO2	Nitrite as N	0.0141	mg/l	0.005
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	NO3	Nitrate as N (calculated)	1.0959	mg/l	
AC04027	RF09	Little Miami Watershed	09	7/19/2012	08:30	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	MF_CF	Fecal Coliform, Membrane Filter	1800	CFU/100mL	
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	E-COLI	E.coli (Colilert)	1120	MPN	
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	TDS	Total Dissolved Solids	280	mg/L	
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	SO4	Sulfate	42.5	mg/L	12.5
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	CL	Chloride	55.6	mg/L	1.00
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	TSS	Tot. Suspended Solids	8	mg/L	2
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	SSC	Suspended Sediment Concentration	5.0	mg/L	5.0
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	HARD	Hardness as CaCO3	220	mg/l	
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	COD	COD	8	mg/L	
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	574	uS/cm	
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	TEMP_FLD	Temperature (Field) Celsius	24.15	Deg C	
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	PH_FLD	pH (Field)	7.67	S.U.	
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	DO_FLD	Dissolved Oxygen (field) mg/L	6.96	mg/l	
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	583	uS/cm	
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	\$ICP	Antimony	0.00	mg/L	0.006
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	\$ICP	Arsenic	0.0358	mg/L	0.012
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	\$ICP	Barium	0.0606	mg/L	0.003
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	\$ICP	Calcium	65.8	mg/L	0.066
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	\$ICP	Chromium	0.00	mg/L	0.006
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	\$ICP	Copper	0.00	mg/L	0.006
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	\$ICP	Iron	0.193	mg/L	0.018
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	\$ICP	Lead	0.00939	mg/L	0.006
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	\$ICP	Magnesium	18.0	mg/L	0.021

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	\$ICP	Manganese	0.0524	mg/L	0.009
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	\$ICP	Nickel	0.00	mg/L	0.003
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	\$ICP	Selenium	0.0468	mg/L	0.009
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	\$ICP	Silver	0.00	mg/L	0.003
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	\$ICP	Strontium	0.275	mg/L	0.009
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	\$ICP	Thallium	0.00	mg/L	0.012
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	\$ICP	Tin	0.00	mg/L	0.006
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	\$ICP	Zinc	0.00773	mg/L	0.006
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	AS_FU	Arsenic by Furnace	2.412	ug/L	1.0
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	CD_FU	Cadmium by Furnace	0	ug/L	1
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	CU_FU	Copper by Furnace	1.9	ug/L	1
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	NH3	Ammonia as N	0	mg/L	0.5
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	NO2	Nitrite as N	0.0107	mg/l	0.005
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04028	RF08	Little Miami Watershed	08	7/19/2012	09:00	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	MF_CF	Fecal Coliform, Membrane Filter	733	CFU/100mL	
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	E-COLI	E.coli (Colilert)	649	MPN	
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	TDS	Total Dissolved Solids	430	mg/L	
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	SO4	Sulfate	33.0	mg/L	12.5
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	CL	Chloride	21.8	mg/L	1.00
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	TSS	Tot. Suspended Solids	4	mg/L	2
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	HARD	Hardness as CaCO3	220	mg/l	
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	COD	COD	5	mg/L	
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	557	uS/cm	
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	TEMP_FLD	Temperature (Field) Celsius	21.32	Deg C	
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	PH_FLD	pH (Field)	7.27	S.U.	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	DO_FLD	Dissolved Oxygen (field) mg/L	5.56	mg/l	
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	599	uS/cm	
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	\$ICP	Aluminum	0.00	mg/L	0.348
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	\$ICP	Antimony	0.00741	mg/L	0.006
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	\$ICP	Arsenic	0.0335	mg/L	0.012
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	\$ICP	Barium	0.0756	mg/L	0.003
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	\$ICP	Beryllium	0.00	mg/L	0.009
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	\$ICP	Cadmium	0.00	mg/L	0.012
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	\$ICP	Calcium	79.4	mg/L	0.066
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	\$ICP	Chromium	0.00	mg/L	0.006
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	\$ICP	Cobalt	0.00	mg/L	0.006
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	\$ICP	Copper	0.00	mg/L	0.006
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	\$ICP	Iron	0.0973	mg/L	0.018
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	\$ICP	Lead	0.00712	mg/L	0.006
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	\$ICP	Magnesium	25.4	mg/L	0.021
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	\$ICP	Manganese	0.0112	mg/L	0.009
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	\$ICP	Nickel	0.00	mg/L	0.003
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	\$ICP	Selenium	0.0283	mg/L	0.009
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	\$ICP	Silver	0.00	mg/L	0.003
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	\$ICP	Strontium	0.144	mg/L	0.009
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	\$ICP	Thallium	0.0137	mg/L	0.012
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	\$ICP	Tin	0.00	mg/L	0.006
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	\$ICP	Vanadium	0.00	mg/L	0.018
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	\$ICP	Zinc	0.00	mg/L	0.006
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	AS_FU	Arsenic by Furnace	0.472	ug/L	1.0
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	CD_FU	Cadmium by Furnace	0	ug/L	1
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	CU_FU	Copper by Furnace	0	ug/L	1
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	NH3	Ammonia as N	0	mg/L	0.5
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	NO2	Nitrite as N	0.0059	mg/l	0.005



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04029	RF10	Little Miami Watershed	10	7/19/2012	09:35	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC04030	LM07	Little Miami Watershed	7	7/19/2012	10:20	MF_CF	Fecal Coliform, Membrane Filter	5400	CFU/100mL	
AC04030	LM07	Little Miami Watershed	7	7/19/2012	10:20	E-COLI	E.coli (Colilert)	2420	MPN	
AC04030	LM07	Little Miami Watershed	7	7/19/2012	10:20	TDS	Total Dissolved Solids	320	mg/L	
AC04030	LM07	Little Miami Watershed	7	7/19/2012	10:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04030	LM07	Little Miami Watershed	7	7/19/2012	10:20	SO4	Sulfate	47.5	mg/L	12.5
AC04030	LM07	Little Miami Watershed	7	7/19/2012	10:20	CL	Chloride	69.7	mg/L	1.00
AC04030	LM07	Little Miami Watershed	7	7/19/2012	10:20	TSS	Tot. Suspended Solids	40	mg/L	2
AC04030	LM07	Little Miami Watershed	7	7/19/2012	10:20	SSC	Suspended Sediment Concentration	33.0	mg/L	5.0
AC04030	LM07	Little Miami Watershed	7	7/19/2012	10:20	HARD	Hardness as CaCO3	200	mg/l	
AC04030	LM07	Little Miami Watershed	7	7/19/2012	10:20	COD	COD	15	mg/L	
AC04030	LM07	Little Miami Watershed	7	7/19/2012	10:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	591	uS/cm	
AC04030	LM07	Little Miami Watershed	7	7/19/2012	10:20	TEMP_FLD	Temperature (Field) Celsius	25.72	Deg C	
AC04030	LM07	Little Miami Watershed	7	7/19/2012	10:20	PH_FLD	pH (Field)	7.66	S.U.	
AC04030	LM07	Little Miami Watershed	7	7/19/2012	10:20	DO_FLD	Dissolved Oxygen (field) mg/L	5.74	mg/l	
AC04030	LM07	Little Miami Watershed	7	7/19/2012	10:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	583	uS/cm	
AC04030	LM07	Little Miami Watershed	7	7/19/2012	10:20	NH3	Ammonia as N	0	mg/L	0.5
AC04030	LM07	Little Miami Watershed	7	7/19/2012	10:20	NO3NO2	Nitrate + Nitrite	2.09	mg/L	0.5
AC04030	LM07	Little Miami Watershed	7	7/19/2012	10:20	TKN	Total Kjeldahl Nitrogen	0.9279	mg/L	0.5
AC04030	LM07	Little Miami Watershed	7	7/19/2012	10:20	TKP	Total Kjeldahl Phosphorus	0.5522	mg/L	0.5
AC04030	LM07	Little Miami Watershed	7	7/19/2012	10:20	NO2	Nitrite as N	0.0406	mg/l	0.005
AC04030	LM07	Little Miami Watershed	7	7/19/2012	10:20	NO3	Nitrate as N (calculated)	2.0494	mg/l	
AC04030	LM07	Little Miami Watershed	7	7/19/2012	10:20	CHLOROPHYLL	Chlorophyll	18.7	mg/m3	1.00
AC04031	LM09	Little Miami Watershed	9	7/19/2012	10:45	MF_CF	Fecal Coliform, Membrane Filter	5700	CFU/100mL	
AC04031	LM09	Little Miami Watershed	9	7/19/2012	10:45	E-COLI	E.coli (Colilert)	2420	MPN	
AC04031	LM09	Little Miami Watershed	9	7/19/2012	10:45	TDS	Total Dissolved Solids	280	mg/L	
AC04031	LM09	Little Miami Watershed	9	7/19/2012	10:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04031	LM09	Little Miami Watershed	9	7/19/2012	10:45	SO4	Sulfate	40.8	mg/L	12.5
AC04031	LM09	Little Miami Watershed	9	7/19/2012	10:45	CL	Chloride	66.9	mg/L	1.00
AC04031	LM09	Little Miami Watershed	9	7/19/2012	10:45	TSS	Tot. Suspended Solids	88	mg/L	2
AC04031	LM09	Little Miami Watershed	9	7/19/2012	10:45	SSC	Suspended Sediment Concentration	89.0	mg/L	5.0
AC04031	LM09	Little Miami Watershed	9	7/19/2012	10:45	HARD	Hardness as CaCO3	190	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04031	LM09	Little Miami Watershed	9	7/19/2012	10:45	COD	COD	22	mg/L	
AC04031	LM09	Little Miami Watershed	9	7/19/2012	10:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	529	uS/cm	
AC04031	LM09	Little Miami Watershed	9	7/19/2012	10:45	TEMP_FLD	Temperature (Field) Celsius	25.68	Deg C	
AC04031	LM09	Little Miami Watershed	9	7/19/2012	10:45	PH_FLD	pH (Field)	7.65	S.U.	
AC04031	LM09	Little Miami Watershed	9	7/19/2012	10:45	DO_FLD	Dissolved Oxygen (field) mg/L	7.13	mg/l	
AC04031	LM09	Little Miami Watershed	9	7/19/2012	10:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	522	uS/cm	
AC04031	LM09	Little Miami Watershed	9	7/19/2012	10:45	NH3	Ammonia as N	0	mg/L	0.5
AC04031	LM09	Little Miami Watershed	9	7/19/2012	10:45	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04031	LM09	Little Miami Watershed	9	7/19/2012	10:45	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC04031	LM09	Little Miami Watershed	9	7/19/2012	10:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04031	LM09	Little Miami Watershed	9	7/19/2012	10:45	NO2	Nitrite as N	0.0261	mg/l	0.005
AC04031	LM09	Little Miami Watershed	9	7/19/2012	10:45	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04031	LM09	Little Miami Watershed	9	7/19/2012	10:45	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC04032	LM10	Little Miami Watershed	10 (3261-10)	7/19/2012	11:15	MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	
AC04032	LM10	Little Miami Watershed	10 (3261-10)	7/19/2012	11:15	E-COLI	E.coli (Colilert)	2420	MPN	
AC04032	LM10	Little Miami Watershed	10 (3261-10)	7/19/2012	11:15	TDS	Total Dissolved Solids	300	mg/L	
AC04032	LM10	Little Miami Watershed	10 (3261-10)	7/19/2012	11:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04032	LM10	Little Miami Watershed	10 (3261-10)	7/19/2012	11:15	SO4	Sulfate	42.2	mg/L	12.5
AC04032	LM10	Little Miami Watershed	10 (3261-10)	7/19/2012	11:15	CL	Chloride	65.8	mg/L	1.00
AC04032	LM10	Little Miami Watershed	10 (3261-10)	7/19/2012	11:15	TSS	Tot. Suspended Solids	98	mg/L	2
AC04032	LM10	Little Miami Watershed	10 (3261-10)	7/19/2012	11:15	SSC	Suspended Sediment Concentration	98.0	mg/L	5.0
AC04032	LM10	Little Miami Watershed	10 (3261-10)	7/19/2012	11:15	HARD	Hardness as CaCO3	182	mg/l	
AC04032	LM10	Little Miami Watershed	10 (3261-10)	7/19/2012	11:15	COD	COD	20	mg/L	
AC04032	LM10	Little Miami Watershed	10 (3261-10)	7/19/2012	11:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	553	uS/cm	
AC04032	LM10	Little Miami Watershed	10 (3261-10)	7/19/2012	11:15	TEMP_FLD	Temperature (Field) Celsius	25.89	Deg C	
AC04032	LM10	Little Miami Watershed	10 (3261-10)	7/19/2012	11:15	PH_FLD	pH (Field)	7.81	S.U.	
AC04032	LM10	Little Miami Watershed	10 (3261-10)	7/19/2012	11:15	DO_FLD	Dissolved Oxygen (field) mg/L	6.56	mg/l	
AC04032	LM10	Little Miami Watershed	10 (3261-10)	7/19/2012	11:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	544	uS/cm	
AC04032	LM10	Little Miami Watershed	10 (3261-10)	7/19/2012	11:15	NH3	Ammonia as N	0	mg/L	0.5
AC04032	LM10	Little Miami Watershed	10 (3261-10)	7/19/2012	11:15	NO3NO2	Nitrate + Nitrite	1.20	mg/L	0.5
AC04032	LM10	Little Miami Watershed	10 (3261-10)	7/19/2012	11:15	TKN	Total Kjeldahl Nitrogen	0.948	mg/L	0.5
AC04032	LM10	Little Miami Watershed	10 (3261-10)	7/19/2012	11:15	TKP	Total Kjeldahl Phosphorus	0.6439	mg/L	0.5
AC04032	LM10	Little Miami Watershed	10 (3261-10)	7/19/2012	11:15	NO2	Nitrite as N	0.0287	mg/l	0.005

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04032	LM10	Little Miami Watershed	10 (3261-10)	7/19/2012	11:15	NO3	Nitrate as N (calculated)	1.1713	mg/l	
AC04032	LM10	Little Miami Watershed	10 (3261-10)	7/19/2012	11:15	CHLOROPHYLL	Chlorophyll	13.9	mg/m3	1.00
AC04033	LM11	Little Miami Watershed	11	7/19/2012	11:50	MF_CF	Fecal Coliform, Membrane Filter	4700	CFU/100mL	
AC04033	LM11	Little Miami Watershed	11	7/19/2012	11:50	E-COLI	E.coli (Colilert)	2420	MPN	
AC04033	LM11	Little Miami Watershed	11	7/19/2012	11:50	TDS	Total Dissolved Solids	270	mg/L	
AC04033	LM11	Little Miami Watershed	11	7/19/2012	11:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04033	LM11	Little Miami Watershed	11	7/19/2012	11:50	SO4	Sulfate	43.2	mg/L	12.5
AC04033	LM11	Little Miami Watershed	11	7/19/2012	11:50	CL	Chloride	61.5	mg/L	1.00
AC04033	LM11	Little Miami Watershed	11	7/19/2012	11:50	TSS	Tot. Suspended Solids	64	mg/L	2
AC04033	LM11	Little Miami Watershed	11	7/19/2012	11:50	SSC	Suspended Sediment Concentration	65.0	mg/L	5.0
AC04033	LM11	Little Miami Watershed	11	7/19/2012	11:50	HARD	Hardness as CaCO3	186	mg/l	
AC04033	LM11	Little Miami Watershed	11	7/19/2012	11:50	COD	COD	10	mg/L	
AC04033	LM11	Little Miami Watershed	11	7/19/2012	11:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	533	uS/cm	
AC04033	LM11	Little Miami Watershed	11	7/19/2012	11:50	TEMP_FLD	Temperature (Field) Celsius	25.78	Deg C	
AC04033	LM11	Little Miami Watershed	11	7/19/2012	11:50	PH_FLD	pH (Field)	7.72	S.U.	
AC04033	LM11	Little Miami Watershed	11	7/19/2012	11:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	525	uS/cm	
AC04033	LM11	Little Miami Watershed	11	7/19/2012	11:50	NH3	Ammonia as N	0	mg/L	0.5
AC04033	LM11	Little Miami Watershed	11	7/19/2012	11:50	NO3NO2	Nitrate + Nitrite	1.39	mg/L	0.5
AC04033	LM11	Little Miami Watershed	11	7/19/2012	11:50	TKN	Total Kjeldahl Nitrogen	0.684	mg/L	0.5
AC04033	LM11	Little Miami Watershed	11	7/19/2012	11:50	TKP	Total Kjeldahl Phosphorus	0.5326	mg/L	0.5
AC04033	LM11	Little Miami Watershed	11	7/19/2012	11:50	NO2	Nitrite as N	0.0321	mg/l	0.005
AC04033	LM11	Little Miami Watershed	11	7/19/2012	11:50	NO3	Nitrate as N (calculated)	1.3579	mg/l	
AC04033	LM11	Little Miami Watershed	11	7/19/2012	11:50	CHLOROPHYLL	Chlorophyll	9.61	mg/m3	1.00
AC04120	LM12	Little Miami Watershed	12 (3261-04)	7/20/2012	08:40	MF_CF	Fecal Coliform, Membrane Filter	5000	CFU/100mL	
AC04120	LM12	Little Miami Watershed	12 (3261-04)	7/20/2012	08:40	E-COLI	E.coli (Colilert)	1733	MPN	
AC04120	LM12	Little Miami Watershed	12 (3261-04)	7/20/2012	08:40	TDS	Total Dissolved Solids	380	mg/L	
AC04120	LM12	Little Miami Watershed	12 (3261-04)	7/20/2012	08:40	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC04120	LM12	Little Miami Watershed	12 (3261-04)	7/20/2012	08:40	SO4	Sulfate	45.8	mg/L	12.50
AC04120	LM12	Little Miami Watershed	12 (3261-04)	7/20/2012	08:40	CL	Chloride	67.9	mg/L	1.00
AC04120	LM12	Little Miami Watershed	12 (3261-04)	7/20/2012	08:40	TSS	Tot. Suspended Solids	78	mg/L	2
AC04120	LM12	Little Miami Watershed	12 (3261-04)	7/20/2012	08:40	SSC	Suspended Sediment Concentration	73.0	mg/L	5.0
AC04120	LM12	Little Miami Watershed	12 (3261-04)	7/20/2012	08:40	HARD	Hardness as CaCO3	322	mg/l	
AC04120	LM12	Little Miami Watershed	12 (3261-04)	7/20/2012	08:40	COD	COD	27	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04120	LM12	Little Miami Watershed	12 (3261-04)	7/20/2012	08:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	591	uS/cm	
AC04120	LM12	Little Miami Watershed	12 (3261-04)	7/20/2012	08:40	TEMP_FLD	Temperature (Field) Celsius	25.87	Deg C	
AC04120	LM12	Little Miami Watershed	12 (3261-04)	7/20/2012	08:40	PH_FLD	pH (Field)	7.77	S.U.	
AC04120	LM12	Little Miami Watershed	12 (3261-04)	7/20/2012	08:40	DO_FLD	Dissolved Oxygen (field) mg/L	6.26	mg/l	
AC04120	LM12	Little Miami Watershed	12 (3261-04)	7/20/2012	08:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	581	uS/cm	
AC04120	LM12	Little Miami Watershed	12 (3261-04)	7/20/2012	08:40	NH3	Ammonia as N	0	mg/L	0.5
AC04120	LM12	Little Miami Watershed	12 (3261-04)	7/20/2012	08:40	NO3NO2	Nitrate + Nitrite	1.30	mg/L	0.5
AC04120	LM12	Little Miami Watershed	12 (3261-04)	7/20/2012	08:40	TKN	Total Kjeldahl Nitrogen	1.108	mg/L	0.5
AC04120	LM12	Little Miami Watershed	12 (3261-04)	7/20/2012	08:40	TKP	Total Kjeldahl Phosphorus	0.5346	mg/L	0.5
AC04120	LM12	Little Miami Watershed	12 (3261-04)	7/20/2012	08:40	NO2	Nitrite as N	0.0227	mg/l	0.005
AC04120	LM12	Little Miami Watershed	12 (3261-04)	7/20/2012	08:40	NO3	Nitrate as N (calculated)	1.2773	mg/l	
AC04120	LM12	Little Miami Watershed	12 (3261-04)	7/20/2012	08:40	CHLOROPHYLL	Chlorophyll	7.63	mg/m3	1.00
AC04121	LM13	Little Miami Watershed	13 (3261-03)	7/20/2012	09:15	MF_CF	Fecal Coliform, Membrane Filter	2200	CFU/100mL	
AC04121	LM13	Little Miami Watershed	13 (3261-03)	7/20/2012	09:15	E-COLI	E.coli (Colilert)	488	MPN	
AC04121	LM13	Little Miami Watershed	13 (3261-03)	7/20/2012	09:15	TDS	Total Dissolved Solids	410	mg/L	
AC04121	LM13	Little Miami Watershed	13 (3261-03)	7/20/2012	09:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04121	LM13	Little Miami Watershed	13 (3261-03)	7/20/2012	09:15	SO4	Sulfate	44.5	mg/L	12.5
AC04121	LM13	Little Miami Watershed	13 (3261-03)	7/20/2012	09:15	CL	Chloride	68.1	mg/L	1.00
AC04121	LM13	Little Miami Watershed	13 (3261-03)	7/20/2012	09:15	TSS	Tot. Suspended Solids	66	mg/L	2
AC04121	LM13	Little Miami Watershed	13 (3261-03)	7/20/2012	09:15	SSC	Suspended Sediment Concentration	46.0	mg/L	5.0
AC04121	LM13	Little Miami Watershed	13 (3261-03)	7/20/2012	09:15	HARD	Hardness as CaCO3	238	mg/l	
AC04121	LM13	Little Miami Watershed	13 (3261-03)	7/20/2012	09:15	COD	COD	21	mg/L	
AC04121	LM13	Little Miami Watershed	13 (3261-03)	7/20/2012	09:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	592	uS/cm	
AC04121	LM13	Little Miami Watershed	13 (3261-03)	7/20/2012	09:15	TEMP_FLD	Temperature (Field) Celsius	25.93	Deg C	
AC04121	LM13	Little Miami Watershed	13 (3261-03)	7/20/2012	09:15	PH_FLD	pH (Field)	7.82	S.U.	
AC04121	LM13	Little Miami Watershed	13 (3261-03)	7/20/2012	09:15	DO_FLD	Dissolved Oxygen (field) mg/L	6.41	mg/l	
AC04121	LM13	Little Miami Watershed	13 (3261-03)	7/20/2012	09:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	582	uS/cm	
AC04121	LM13	Little Miami Watershed	13 (3261-03)	7/20/2012	09:15	NH3	Ammonia as N	0	mg/L	0.5
AC04121	LM13	Little Miami Watershed	13 (3261-03)	7/20/2012	09:15	NO3NO2	Nitrate + Nitrite	1.29	mg/L	0.5
AC04121	LM13	Little Miami Watershed	13 (3261-03)	7/20/2012	09:15	TKN	Total Kjeldahl Nitrogen	1.132	mg/L	0.5
AC04121	LM13	Little Miami Watershed	13 (3261-03)	7/20/2012	09:15	TKP	Total Kjeldahl Phosphorus	0.5617	mg/L	0.5
AC04121	LM13	Little Miami Watershed	13 (3261-03)	7/20/2012	09:15	NO2	Nitrite as N	0.0194	mg/l	0.005
AC04121	LM13	Little Miami Watershed	13 (3261-03)	7/20/2012	09:15	NO3	Nitrate as N (calculated)	1.2706	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04121	LM13	Little Miami Watershed	13 (3261-03)	7/20/2012	09:15	CHLOROPHYLL	Chlorophyll	5.34	mg/m3	1.00
AC04122	LM14	Little Miami Watershed	14	7/20/2012	09:45	MF_CF	Fecal Coliform, Membrane Filter	2500	CFU/100mL	
AC04122	LM14	Little Miami Watershed	14	7/20/2012	09:45	E-COLI	E.coli (Colilert)	2420	MPN	
AC04122	LM14	Little Miami Watershed	14	7/20/2012	09:45	TDS	Total Dissolved Solids	820	mg/L	
AC04122	LM14	Little Miami Watershed	14	7/20/2012	09:45	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC04122	LM14	Little Miami Watershed	14	7/20/2012	09:45	SO4	Sulfate	44.8	mg/L	12.5
AC04122	LM14	Little Miami Watershed	14	7/20/2012	09:45	CL	Chloride	66.9	mg/L	1.00
AC04122	LM14	Little Miami Watershed	14	7/20/2012	09:45	TSS	Tot. Suspended Solids	69	mg/L	2
AC04122	LM14	Little Miami Watershed	14	7/20/2012	09:45	SSC	Suspended Sediment Concentration	42.0	mg/L	5.0
AC04122	LM14	Little Miami Watershed	14	7/20/2012	09:45	HARD	Hardness as CaCO3	262	mg/l	
AC04122	LM14	Little Miami Watershed	14	7/20/2012	09:45	COD	COD	12	mg/L	
AC04122	LM14	Little Miami Watershed	14	7/20/2012	09:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	593	uS/cm	
AC04122	LM14	Little Miami Watershed	14	7/20/2012	09:45	TEMP_FLD	Temperature (Field) Celsius	26.00	Deg C	
AC04122	LM14	Little Miami Watershed	14	7/20/2012	09:45	PH_FLD	pH (Field)	7.51	S.U.	
AC04122	LM14	Little Miami Watershed	14	7/20/2012	09:45	DO_FLD	Dissolved Oxygen (field) mg/L	5.84	mg/l	
AC04122	LM14	Little Miami Watershed	14	7/20/2012	09:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	582	uS/cm	
AC04122	LM14	Little Miami Watershed	14	7/20/2012	09:45	NH3	Ammonia as N	0	mg/L	0.5
AC04122	LM14	Little Miami Watershed	14	7/20/2012	09:45	NO3NO2	Nitrate + Nitrite	1.24	mg/L	0.5
AC04122	LM14	Little Miami Watershed	14	7/20/2012	09:45	TKN	Total Kjeldahl Nitrogen	0.8775	mg/L	0.5
AC04122	LM14	Little Miami Watershed	14	7/20/2012	09:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04122	LM14	Little Miami Watershed	14	7/20/2012	09:45	NO2	Nitrite as N	0.0210	mg/l	0.005
AC04122	LM14	Little Miami Watershed	14	7/20/2012	09:45	NO3	Nitrate as N (calculated)	1.2190	mg/l	
AC04122	LM14	Little Miami Watershed	14	7/20/2012	09:45	CHLOROPHYLL	Chlorophyll	6.94	mg/m3	1.00
AC04123	LM15	Little Miami Watershed	15	7/20/2012	10:20	MF_CF	Fecal Coliform, Membrane Filter	2200	CFU/100mL	
AC04123	LM15	Little Miami Watershed	15	7/20/2012	10:20	E-COLI	E.coli (Colilert)	2420	MPN	
AC04123	LM15	Little Miami Watershed	15	7/20/2012	10:20	TDS	Total Dissolved Solids	380	mg/L	
AC04123	LM15	Little Miami Watershed	15	7/20/2012	10:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04123	LM15	Little Miami Watershed	15	7/20/2012	10:20	SO4	Sulfate	46.0	mg/L	12.5
AC04123	LM15	Little Miami Watershed	15	7/20/2012	10:20	CL	Chloride	66.3	mg/L	1.00
AC04123	LM15	Little Miami Watershed	15	7/20/2012	10:20	TSS	Tot. Suspended Solids	34	mg/L	2
AC04123	LM15	Little Miami Watershed	15	7/20/2012	10:20	SSC	Suspended Sediment Concentration	28.0	mg/L	5.0
AC04123	LM15	Little Miami Watershed	15	7/20/2012	10:20	HARD	Hardness as CaCO3	260	mg/l	
AC04123	LM15	Little Miami Watershed	15	7/20/2012	10:20	COD	COD	5	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04123	LM15	Little Miami Watershed	15	7/20/2012	10:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	582	uS/cm	
AC04123	LM15	Little Miami Watershed	15	7/20/2012	10:20	TEMP_FLD	Temperature (Field) Celsius	26.14	Deg C	
AC04123	LM15	Little Miami Watershed	15	7/20/2012	10:20	PH_FLD	pH (Field)	7.75	S.U.	
AC04123	LM15	Little Miami Watershed	15	7/20/2012	10:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	520	uS/cm	
AC04123	LM15	Little Miami Watershed	15	7/20/2012	10:20	NH3	Ammonia as N	0	mg/L	0.5
AC04123	LM15	Little Miami Watershed	15	7/20/2012	10:20	NO3NO2	Nitrate + Nitrite	1.26	mg/L	0.5
AC04123	LM15	Little Miami Watershed	15	7/20/2012	10:20	TKN	Total Kjeldahl Nitrogen	0.7635	mg/L	0.5
AC04123	LM15	Little Miami Watershed	15	7/20/2012	10:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04123	LM15	Little Miami Watershed	15	7/20/2012	10:20	NO2	Nitrite as N	0.0233	mg/l	0.005
AC04123	LM15	Little Miami Watershed	15	7/20/2012	10:20	NO3	Nitrate as N (calculated)	1.2367	mg/l	
AC04123	LM15	Little Miami Watershed	15	7/20/2012	10:20	CHLOROPHYLL	Chlorophyll	5.34	mg/m3	1.00
AC04124	LM16	Little Miami Watershed	16 (3261-02)	7/20/2012	10:35	MF_CF	Fecal Coliform, Membrane Filter	4300	CFU/100mL	
AC04124	LM16	Little Miami Watershed	16 (3261-02)	7/20/2012	10:35	E-COLI	E.coli (Colilert)	1553	MPN	
AC04124	LM16	Little Miami Watershed	16 (3261-02)	7/20/2012	10:35	TDS	Total Dissolved Solids	370	mg/L	
AC04124	LM16	Little Miami Watershed	16 (3261-02)	7/20/2012	10:35	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04124	LM16	Little Miami Watershed	16 (3261-02)	7/20/2012	10:35	SO4	Sulfate	45.0	mg/L	12.5
AC04124	LM16	Little Miami Watershed	16 (3261-02)	7/20/2012	10:35	CL	Chloride	63.9	mg/L	1.00
AC04124	LM16	Little Miami Watershed	16 (3261-02)	7/20/2012	10:35	TSS	Tot. Suspended Solids	40	mg/L	2
AC04124	LM16	Little Miami Watershed	16 (3261-02)	7/20/2012	10:35	SSC	Suspended Sediment Concentration	56.0	mg/L	5.0
AC04124	LM16	Little Miami Watershed	16 (3261-02)	7/20/2012	10:35	HARD	Hardness as CaCO3	248	mg/l	
AC04124	LM16	Little Miami Watershed	16 (3261-02)	7/20/2012	10:35	COD	COD	12	mg/L	
AC04124	LM16	Little Miami Watershed	16 (3261-02)	7/20/2012	10:35	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	565	uS/cm	
AC04124	LM16	Little Miami Watershed	16 (3261-02)	7/20/2012	10:35	TEMP_FLD	Temperature (Field) Celsius	26.03	Deg C	
AC04124	LM16	Little Miami Watershed	16 (3261-02)	7/20/2012	10:35	PH_FLD	pH (Field)	7.71	S.U.	
AC04124	LM16	Little Miami Watershed	16 (3261-02)	7/20/2012	10:35	DO_FLD	Dissolved Oxygen (field) mg/L	5.90	mg/l	
AC04124	LM16	Little Miami Watershed	16 (3261-02)	7/20/2012	10:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	554	uS/cm	
AC04124	LM16	Little Miami Watershed	16 (3261-02)	7/20/2012	10:35	NH3	Ammonia as N	0	mg/L	0.5
AC04124	LM16	Little Miami Watershed	16 (3261-02)	7/20/2012	10:35	NO3NO2	Nitrate + Nitrite	1.23	mg/L	0.5
AC04124	LM16	Little Miami Watershed	16 (3261-02)	7/20/2012	10:35	TKN	Total Kjeldahl Nitrogen	0.8449	mg/L	0.5
AC04124	LM16	Little Miami Watershed	16 (3261-02)	7/20/2012	10:35	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04124	LM16	Little Miami Watershed	16 (3261-02)	7/20/2012	10:35	NO2	Nitrite as N	0.0226	mg/l	0.005
AC04124	LM16	Little Miami Watershed	16 (3261-02)	7/20/2012	10:35	NO3	Nitrate as N (calculated)	1.2074	mg/l	
AC04124	LM16	Little Miami Watershed	16 (3261-02)	7/20/2012	10:35	CHLOROPHYLL	Chlorophyll	5.87	mg/m3	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04125	LM17	Little Miami Watershed	17 (3261-01)	7/20/2012	11:50	MF_CF	Fecal Coliform, Membrane Filter	5600	CFU/100mL	
AC04125	LM17	Little Miami Watershed	17 (3261-01)	7/20/2012	11:50	E-COLI	E.coli (Colilert)	2420	MPN	
AC04125	LM17	Little Miami Watershed	17 (3261-01)	7/20/2012	11:50	TDS	Total Dissolved Solids	390	mg/L	
AC04125	LM17	Little Miami Watershed	17 (3261-01)	7/20/2012	11:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04125	LM17	Little Miami Watershed	17 (3261-01)	7/20/2012	11:50	SO4	Sulfate	44.2	mg/L	12.5
AC04125	LM17	Little Miami Watershed	17 (3261-01)	7/20/2012	11:50	CL	Chloride	64.4	mg/L	1.00
AC04125	LM17	Little Miami Watershed	17 (3261-01)	7/20/2012	11:50	TSS	Tot. Suspended Solids	42	mg/L	2
AC04125	LM17	Little Miami Watershed	17 (3261-01)	7/20/2012	11:50	SSC	Suspended Sediment Concentration	46.0	mg/L	5.0
AC04125	LM17	Little Miami Watershed	17 (3261-01)	7/20/2012	11:50	HARD	Hardness as CaCO3	244	mg/l	
AC04125	LM17	Little Miami Watershed	17 (3261-01)	7/20/2012	11:50	COD	COD	8	mg/L	
AC04125	LM17	Little Miami Watershed	17 (3261-01)	7/20/2012	11:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	558	uS/cm	
AC04125	LM17	Little Miami Watershed	17 (3261-01)	7/20/2012	11:50	TEMP_FLD	Temperature (Field) Celsius	25.86	Deg C	
AC04125	LM17	Little Miami Watershed	17 (3261-01)	7/20/2012	11:50	PH_FLD	pH (Field)	7.57	S.U.	
AC04125	LM17	Little Miami Watershed	17 (3261-01)	7/20/2012	11:50	DO_FLD	Dissolved Oxygen (field) mg/L	4.35	mg/l	
AC04125	LM17	Little Miami Watershed	17 (3261-01)	7/20/2012	11:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	549	uS/cm	
AC04125	LM17	Little Miami Watershed	17 (3261-01)	7/20/2012	11:50	NH3	Ammonia as N	0	mg/L	0.5
AC04125	LM17	Little Miami Watershed	17 (3261-01)	7/20/2012	11:50	NO3NO2	Nitrate + Nitrite	1.29	mg/L	0.5
AC04125	LM17	Little Miami Watershed	17 (3261-01)	7/20/2012	11:50	TKN	Total Kjeldahl Nitrogen	0.7930	mg/L	0.5
AC04125	LM17	Little Miami Watershed	17 (3261-01)	7/20/2012	11:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04125	LM17	Little Miami Watershed	17 (3261-01)	7/20/2012	11:50	NO2	Nitrite as N	0.0236	mg/l	0.005
AC04125	LM17	Little Miami Watershed	17 (3261-01)	7/20/2012	11:50	NO3	Nitrate as N (calculated)	1.2664	mg/l	
AC04125	LM17	Little Miami Watershed	17 (3261-01)	7/20/2012	11:50	CHLOROPHYLL	Chlorophyll	4.27	mg/m3	1.00
AC04126	LM108	Little Miami Watershed	108	7/20/2012	11:45	MF_CF	Fecal Coliform, Membrane Filter	667	CFU/100mL	
AC04126	LM108	Little Miami Watershed	108	7/20/2012	11:45	E-COLI	E.coli (Colilert)	2420	MPN	
AC04126	LM108	Little Miami Watershed	108	7/20/2012	11:45	TDS	Total Dissolved Solids	380	mg/L	
AC04126	LM108	Little Miami Watershed	108	7/20/2012	11:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04126	LM108	Little Miami Watershed	108	7/20/2012	11:45	SO4	Sulfate	56.5	mg/L	12.5
AC04126	LM108	Little Miami Watershed	108	7/20/2012	11:45	CL	Chloride	48.3	mg/L	1.00
AC04126	LM108	Little Miami Watershed	108	7/20/2012	11:45	TSS	Tot. Suspended Solids	12	mg/L	2
AC04126	LM108	Little Miami Watershed	108	7/20/2012	11:45	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04126	LM108	Little Miami Watershed	108	7/20/2012	11:45	HARD	Hardness as CaCO3	246	mg/l	
AC04126	LM108	Little Miami Watershed	108	7/20/2012	11:45	COD	COD	22	mg/L	
AC04126	LM108	Little Miami Watershed	108	7/20/2012	11:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	497	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04126	LM108	Little Miami Watershed	108	7/20/2012	11:45	TEMP_FLD	Temperature (Field) Celsius	24.36	Deg C	
AC04126	LM108	Little Miami Watershed	108	7/20/2012	11:45	PH_FLD	pH (Field)	7.71	S.U.	
AC04126	LM108	Little Miami Watershed	108	7/20/2012	11:45	DO_FLD	Dissolved Oxygen (field) mg/L	7.50	mg/l	
AC04126	LM108	Little Miami Watershed	108	7/20/2012	11:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	503	uS/cm	
AC04126	LM108	Little Miami Watershed	108	7/20/2012	11:45	NH3	Ammonia as N	0	mg/L	0.5
AC04126	LM108	Little Miami Watershed	108	7/20/2012	11:45	NO3NO2	Nitrate + Nitrite	0.771	mg/L	0.5
AC04126	LM108	Little Miami Watershed	108	7/20/2012	11:45	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC04126	LM108	Little Miami Watershed	108	7/20/2012	11:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04126	LM108	Little Miami Watershed	108	7/20/2012	11:45	NO2	Nitrite as N	0.0046	mg/l	0.005
AC04126	LM108	Little Miami Watershed	108	7/20/2012	11:45	NO3	Nitrate as N (calculated)	0.7664	mg/l	
AC04126	LM108	Little Miami Watershed	108	7/20/2012	11:45	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	MF_CF	Fecal Coliform, Membrane Filter	667	CFU/100mL	
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	E-COLI	E.coli (Colilert)	155	MPN	
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	TDS	Total Dissolved Solids	520	mg/L	
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	SO4	Sulfate	63.0	mg/L	12.5
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	CL	Chloride	134	mg/L	4.0
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	TSS	Tot. Suspended Solids	20	mg/L	2
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	SSC	Suspended Sediment Concentration	16.0	mg/L	5.0
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	HARD	Hardness as CaCO3	374	mg/l	
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	COD	COD	39	mg/L	
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	954	uS/cm	
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	TEMP_FLD	Temperature (Field) Celsius	26.53	Deg C	
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	PH_FLD	pH (Field)	7.82	S.U.	
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	DO_FLD	Dissolved Oxygen (field) mg/L	7.55	mg/l	
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	CONDUCTIVITY	Specific Conductivity (uS/cm)	925	uS/cm	
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	\$ICP	Aluminum	0.408	mg/L	0.348
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	\$ICP	Antimony	0.00866	mg/L	0.006
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	\$ICP	Arsenic	0.0304	mg/L	0.012
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	\$ICP	Barium	0.0794	mg/L	0.003
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	\$ICP	Beryllium	0.00	mg/L	0.009
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	\$ICP	Cadmium	0.00	mg/L	0.012
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	\$ICP	Calcium	78.7	mg/L	0.066



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	\$ICP	Chromium	0.00	mg/L	0.006
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	\$ICP	Cobalt	0.00	mg/L	0.006
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	\$ICP	Copper	0.00	mg/L	0.006
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	\$ICP	Iron	0.600	mg/L	0.018
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	\$ICP	Lead	0.0131	mg/L	0.006
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	\$ICP	Magnesium	27.9	mg/L	0.021
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	\$ICP	Manganese	0.0406	mg/L	0.009
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	\$ICP	Nickel	0.00	mg/L	0.003
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	\$ICP	Selenium	0.0421	mg/L	0.009
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	\$ICP	Silver	0.00	mg/L	0.003
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	\$ICP	Strontium	0.382	mg/L	0.009
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	\$ICP	Thallium	0.00	mg/L	0.012
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	\$ICP	Tin	0.00	mg/L	0.006
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	\$ICP	Vanadium	0.00	mg/L	0.018
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	\$ICP	Zinc	0.0220	mg/L	0.006
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	AS_FU	Arsenic by Furnace	3.251	ug/L	1.0
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	CU_FU	Copper by Furnace	3.0	ug/L	1
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	NH3	Ammonia as N	0	mg/L	0.5
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	NO3NO2	Nitrate + Nitrite	2.21	mg/L	0.5
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	NO2	Nitrite as N	0.0266	mg/l	0.005
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	NO3	Nitrate as N (calculated)	2.1834	mg/l	
AC04176	LM01	Little Miami Watershed	1	7/23/2012	10:25	CHLOROPHYLL	Chlorophyll	4.27	mg/m3	1.00
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	MF_CF	Fecal Coliform, Membrane Filter	300	CFU/100mL	
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	E-COLI	E.coli (Colilert)	147	MPN	
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	TDS	Total Dissolved Solids	520	mg/L	
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	SO4	Sulfate	52.2	mg/L	12.5
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	CL	Chloride	96.8	mg/L	1.00
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	TSS	Tot. Suspended Solids	24	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	SSC	Suspended Sediment Concentration	20.0	mg/L	5.0
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	HARD	Hardness as CaCO3	360	mg/l	
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	COD	COD	39	mg/L	
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	854	uS/cm	
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	TEMP_FLD	Temperature (Field) Celsius	27.07	Deg C	
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	PH_FLD	pH (Field)	7.90	S.U.	
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	DO_FLD	Dissolved Oxygen (field) mg/L	7.93	mg/l	
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	821	uS/cm	
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	\$ICP	Aluminum	0.466	mg/L	0.348
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	\$ICP	Antimony	0.0142	mg/L	0.006
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	\$ICP	Arsenic	0.0466	mg/L	0.012
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	\$ICP	Barium	0.0806	mg/L	0.003
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	\$ICP	Calcium	74.9	mg/L	0.066
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	\$ICP	Chromium	0.00	mg/L	0.006
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	\$ICP	Copper	0.00	mg/L	0.006
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	\$ICP	Iron	0.698	mg/L	0.018
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	\$ICP	Lead	0.0105	mg/L	0.006
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	\$ICP	Magnesium	27.6	mg/L	0.021
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	\$ICP	Manganese	0.0510	mg/L	0.009
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	\$ICP	Nickel	0.00335	mg/L	0.003
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	\$ICP	Selenium	0.0724	mg/L	0.009
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	\$ICP	Silver	0.00	mg/L	0.003
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	\$ICP	Strontium	0.373	mg/L	0.009
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	\$ICP	Thallium	0.00	mg/L	0.012
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	\$ICP	Tin	0.00	mg/L	0.006
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	\$ICP	Zinc	0.0163	mg/L	0.006
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	PB_FU	Lead by Furnace	0.233	ug/L	0.5
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	AS_FU	Arsenic by Furnace	3.390	ug/L	1.0
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	CD_FU	Cadmium by Furnace	AA	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	CU_FU	Copper by Furnace	3.3	ug/L	1
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	NH3	Ammonia as N	0	mg/L	0.5
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	NO3NO2	Nitrate + Nitrite	3.76	mg/L	0.5
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	NO2	Nitrite as N	0.0144	mg/l	0.005
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	NO3	Nitrate as N (calculated)	3.7456	mg/l	
AC04177	LM02	Little Miami Watershed	2 (3261-09)	7/23/2012	10:50	CHLOROPHYLL	Chlorophyll	8.01	mg/m3	1.00
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	420	CFU/100mL	
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	E-COLI	E.coli (Colilert)	770	MPN	
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	TDS	Total Dissolved Solids	440	mg/L	
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	SO4	Sulfate	75.5	mg/L	25.0
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	CL	Chloride	72.7	mg/L	1.00
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	TSS	Tot. Suspended Solids	2	mg/L	2
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	SSC	Suspended Sediment Concentration	6.0	mg/L	5.0
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	HARD	Hardness as CaCO3	272	mg/l	
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	COD	COD	34	mg/L	
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	687	uS/cm	
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	25.08	Deg C	
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	PH_FLD	pH (Field)	7.20	S.U.	
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	6.20	mg/l	
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	687	uS/cm	
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	\$ICP	Antimony	0.00	mg/L	0.006
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	\$ICP	Arsenic	0.0317	mg/L	0.012
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	\$ICP	Barium	0.0396	mg/L	0.003
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	\$ICP	Calcium	61.8	mg/L	0.066
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	\$ICP	Chromium	0.00	mg/L	0.006
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	\$ICP	Copper	0.00906	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	\$ICP	Iron	0.228	mg/L	0.018
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	\$ICP	Lead	0.00	mg/L	0.006
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	\$ICP	Magnesium	13.9	mg/L	0.021
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	\$ICP	Manganese	0.0463	mg/L	0.009
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	\$ICP	Nickel	0.00	mg/L	0.003
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	\$ICP	Selenium	0.0555	mg/L	0.009
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	\$ICP	Silver	0.00	mg/L	0.003
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	\$ICP	Strontium	0.239	mg/L	0.009
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	\$ICP	Thallium	0.00	mg/L	0.012
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	\$ICP	Tin	0.00	mg/L	0.006
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	\$ICP	Zinc	0.0243	mg/L	0.006
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	AS_FU	Arsenic by Furnace	0.851	ug/L	1.0
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	CU_FU	Copper by Furnace	7.5	ug/L	1
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	NO3NO2	Nitrate + Nitrite	6.67	mg/L	0.5
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	TKN	Total Kjeldahl Nitrogen	0.7177	mg/L	0.5
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	TKP	Total Kjeldahl Phosphorus	1.121	mg/L	0.5
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	NO2	Nitrite as N	0.0459	mg/l	0.005
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	NO3	Nitrate as N (calculated)	6.6241	mg/l	
AC04178	LM38	Little Miami Watershed	38	7/23/2012	11:00	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	MF_CF	Fecal Coliform, Membrane Filter	230	CFU/100mL	
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	E-COLI	E.coli (Colilert)	236	MPN	
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	TDS	Total Dissolved Solids	460	mg/L	
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	SO4	Sulfate	51.0	mg/L	12.5
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	CL	Chloride	94.3	mg/L	1.00
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	TSS	Tot. Suspended Solids	22	mg/L	2
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	SSC	Suspended Sediment Concentration	15.0	mg/L	5.0
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	HARD	Hardness as CaCO3	364	mg/l	
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	COD	COD	28	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	836	uS/cm	
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	TEMP_FLD	Temperature (Field) Celsius	27.40	Deg C	
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	PH_FLD	pH (Field)	7.98	S.U.	
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	DO_FLD	Dissolved Oxygen (field) mg/L	8.28	mg/l	
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	800	uS/cm	
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	\$ICP	Antimony	0.00	mg/L	0.006
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	\$ICP	Arsenic	0.0338	mg/L	0.012
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	\$ICP	Barium	0.0751	mg/L	0.003
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	\$ICP	Calcium	69.9	mg/L	0.066
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	\$ICP	Chromium	0.00	mg/L	0.006
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	\$ICP	Copper	0.00	mg/L	0.006
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	\$ICP	Iron	0.511	mg/L	0.018
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	\$ICP	Lead	0.00898	mg/L	0.006
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	\$ICP	Magnesium	25.5	mg/L	0.021
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	\$ICP	Manganese	0.0482	mg/L	0.009
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	\$ICP	Nickel	0.00	mg/L	0.003
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	\$ICP	Selenium	0.0955	mg/L	0.009
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	\$ICP	Silver	0.00	mg/L	0.003
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	\$ICP	Strontium	0.352	mg/L	0.009
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	\$ICP	Thallium	0.0389	mg/L	0.012
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	\$ICP	Tin	0.00	mg/L	0.006
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	\$ICP	Zinc	0.0122	mg/L	0.006
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	AS_FU	Arsenic by Furnace	0	ug/L	1.0
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	CU_FU	Copper by Furnace	2.4	ug/L	1
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	NO3NO2	Nitrate + Nitrite	1.5128	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	NO2	Nitrite as N	0.0159	mg/l	0.005
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	NO3	Nitrate as N (calculated)	1.4969	mg/l	
AC04179	LM03	Little Miami Watershed	3	7/23/2012	11:30	CHLOROPHYLL	Chlorophyll	8.54	mg/m3	1.00
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	MF_CF	Fecal Coliform, Membrane Filter	164	CFU/100mL	
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	E-COLI	E.coli (Colilert)	205	MPN	
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	TDS	Total Dissolved Solids	620	mg/L	
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	SO4	Sulfate	77.0	mg/L	25.0
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	CL	Chloride	146	mg/L	4.0
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	TSS	Tot. Suspended Solids	18	mg/L	2
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	SSC	Suspended Sediment Concentration	14.0	mg/L	5.0
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	HARD	Hardness as CaCO3	322	mg/l	
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	COD	COD	38	mg/L	
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1099	uS/cm	
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	TEMP_FLD	Temperature (Field) Celsius	23.58	Deg C	
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	PH_FLD	pH (Field)	7.17	S.U.	
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	DO_FLD	Dissolved Oxygen (field) mg/L	8.03	mg/l	
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	1126	uS/cm	
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	\$ICP	Aluminum	0.202	mg/L	0.348
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	\$ICP	Antimony	0.011	mg/L	0.006
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	\$ICP	Arsenic	0.032	mg/L	0.012
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	\$ICP	Barium	0.061	mg/L	0.003
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	\$ICP	Beryllium	0.000	mg/L	0.009
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	\$ICP	Cadmium	0.000	mg/L	0.012
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	\$ICP	Calcium	72.220	mg/L	0.066
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	\$ICP	Chromium	0.000	mg/L	0.006
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	\$ICP	Cobalt	0.000	mg/L	0.006
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	\$ICP	Copper	0.011	mg/L	0.006
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	\$ICP	Iron	0.320	mg/L	0.018
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	\$ICP	Lead	0.009	mg/L	0.006
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	\$ICP	Magnesium	23.790	mg/L	0.021

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	\$ICP	Manganese	0.040	mg/L	0.009
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	\$ICP	Nickel	0.000	mg/L	0.003
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	\$ICP	Selenium	0.042	mg/L	0.009
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	\$ICP	Silver	0.000	mg/L	0.003
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	\$ICP	Strontium	0.349	mg/L	0.009
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	\$ICP	Thallium	0.023	mg/L	0.012
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	\$ICP	Tin	0.000	mg/L	0.006
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	\$ICP	Vanadium	0.000	mg/L	0.018
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	\$ICP	Zinc	0.035	mg/L	0.006
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	AS_FU	Arsenic by Furnace	2.462	ug/L	1.0
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	CU_FU	Copper by Furnace	7.9	ug/L	1
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	NH3	Ammonia as N	0	mg/L	0.5
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	NO3NO2	Nitrate + Nitrite	4.12	mg/L	0.5
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	TKN	Total Kjeldahl Nitrogen	1.154	mg/L	0.5
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	TKP	Total Kjeldahl Phosphorus	1.272	mg/L	0.5
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	NO2	Nitrite as N	0.1389	mg/l	0.005
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	NO3	Nitrate as N (calculated)	3.9811	mg/l	
AC04180	LM04	Little Miami Watershed	4	7/23/2012	11:45	CHLOROPHYLL	Chlorophyll	6.41	mg/m3	1.00
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	MF_CF	Fecal Coliform, Membrane Filter	125	CFU/100mL	
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	E-COLI	E.coli (Colilert)	167	MPN	
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	TDS	Total Dissolved Solids	510	mg/L	
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	SO4	Sulfate	77.0	mg/L	50.0
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	CL	Chloride	94.7	mg/L	1.00
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	TSS	Tot. Suspended Solids	16	mg/L	2
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	SSC	Suspended Sediment Concentration	17.0	mg/L	5.0
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	HARD	Hardness as CaCO3	392	mg/l	
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	COD	COD	37	mg/L	
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	829	uS/cm	
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	TEMP_FLD	Temperature (Field) Celsius	27.65	Deg C	
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	PH_FLD	pH (Field)	8.11	S.U.	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	DO_FLD	Dissolved Oxygen (field) mg/L	9.01	mg/l	
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	789	uS/cm	
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	\$ICP	Aluminum	0.403	mg/L	0.348
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	\$ICP	Antimony	0.0113	mg/L	0.006
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	\$ICP	Arsenic	0.0278	mg/L	0.012
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	\$ICP	Barium	0.0742	mg/L	0.003
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	\$ICP	Calcium	69.7	mg/L	0.066
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	\$ICP	Chromium	0.00	mg/L	0.006
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	\$ICP	Copper	0.00	mg/L	0.006
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	\$ICP	Iron	0.598	mg/L	0.018
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	\$ICP	Lead	0.00665	mg/L	0.006
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	\$ICP	Magnesium	25.2	mg/L	0.021
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	\$ICP	Manganese	0.0499	mg/L	0.009
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	\$ICP	Nickel	0.00	mg/L	0.003
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	\$ICP	Selenium	0.0703	mg/L	0.009
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	\$ICP	Silver	0.00	mg/L	0.003
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	\$ICP	Strontium	0.351	mg/L	0.009
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	\$ICP	Thallium	0.00	mg/L	0.012
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	\$ICP	Tin	0.00	mg/L	0.006
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	\$ICP	Zinc	0.0174	mg/L	0.006
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	PB_FU	Lead by Furnace	0.466	ug/L	0.5
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	AS_FU	Arsenic by Furnace	2.496	ug/L	1.0
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	CU_FU	Copper by Furnace	3.6	ug/L	1
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	NH3	Ammonia as N	0	mg/L	0.5
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	NO3NO2	Nitrate + Nitrite	1.78	mg/L	0.5
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	NO2	Nitrite as N	0.0203	mg/l	0.005



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	NO3	Nitrate as N (calculated)	1.7597	mg/l	
AC04181	LM05	Little Miami Watershed	5 (3261-08)	7/23/2012	12:00	CHLOROPHYLL	Chlorophyll	7.48	mg/m3	1.00
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	MF_CF	Fecal Coliform, Membrane Filter	390	CFU/100mL	
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	E-COLI	E.coli (Colilert)	248	MPN	
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	TDS	Total Dissolved Solids	470	mg/L	
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	BOD	Biochemical Oxygen Demand	6	mg/L	2
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	SO4	Sulfate	49.8	mg/L	12.5
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	CL	Chloride	88.6	mg/L	1.00
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	TSS	Tot. Suspended Solids	18	mg/L	2
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	SSC	Suspended Sediment Concentration	19.0	mg/L	5.0
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	HARD	Hardness as CaCO3	346	mg/l	
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	COD	COD	21	mg/L	
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	779	uS/cm	
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	TEMP_FLD	Temperature (Field) Celsius	27.07	Deg C	
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	PH_FLD	pH (Field)	7.86	S.U.	
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	DO_FLD	Dissolved Oxygen (field) mg/L	6.65	mg/l	
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	749	uS/cm	
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	\$ICP	Aluminum	0.431	mg/L	0.348
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	\$ICP	Antimony	0.00862	mg/L	0.006
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	\$ICP	Arsenic	0.0540	mg/L	0.012
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	\$ICP	Barium	0.0719	mg/L	0.003
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	\$ICP	Calcium	65.8	mg/L	0.066
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	\$ICP	Chromium	0.00	mg/L	0.006
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	\$ICP	Copper	0.00	mg/L	0.006
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	\$ICP	Iron	0.672	mg/L	0.018
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	\$ICP	Lead	0.00989	mg/L	0.006
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	\$ICP	Magnesium	23.2	mg/L	0.021
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	\$ICP	Manganese	0.0643	mg/L	0.009
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	\$ICP	Nickel	0.00	mg/L	0.003
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	\$ICP	Selenium	0.0732	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	\$ICP	Silver	0.00	mg/L	0.003
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	\$ICP	Strontium	0.331	mg/L	0.009
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	\$ICP	Thallium	0.00	mg/L	0.012
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	\$ICP	Tin	0.00	mg/L	0.006
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	\$ICP	Zinc	0.0433	mg/L	0.006
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	PB_FU	Lead by Furnace	0.341	ug/L	0.5
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	AS_FU	Arsenic by Furnace	3.370	ug/L	1.0
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	CU_FU	Copper by Furnace	3.4	ug/L	1
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	NH3	Ammonia as N	0	mg/L	0.5
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	NO3NO2	Nitrate + Nitrite	2.83	mg/L	0.5
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	TKN	Total Kjeldahl Nitrogen	0.5809	mg/L	0.5
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	NO2	Nitrite as N	0.0223	mg/l	0.005
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	NO3	Nitrate as N (calculated)	2.8077	mg/l	
AC04182	LM06	Little Miami Watershed	6 (3261-07)	7/23/2012	12:20	CHLOROPHYLL	Chlorophyll	12.8	mg/m3	1.00
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	MF_CF	Fecal Coliform, Membrane Filter	275	CFU/100mL	
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	E-COLI	E.coli (Colilert)	185	MPN	
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	TDS	Total Dissolved Solids	300	mg/L	
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	SO4	Sulfate	100	mg/L	50.0
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	CL	Chloride	90.1	mg/L	1.00
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	TSS	Tot. Suspended Solids	16	mg/L	2
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	SSC	Suspended Sediment Concentration	11.0	mg/L	5.0
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	HARD	Hardness as CaCO3	240	mg/l	
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	COD	COD	39	mg/L	
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	791	uS/cm	
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	TEMP_FLD	Temperature (Field) Celsius	25.11	Deg C	
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	PH_FLD	pH (Field)	7.24	S.U.	
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	DO_FLD	Dissolved Oxygen (field) mg/L	6.50	mg/l	
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	790	uS/cm	
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	\$ICP	Aluminum	0.00	mg/L	0.348

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	\$ICP	Antimony	0.00	mg/L	0.006
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	\$ICP	Arsenic	0.0313	mg/L	0.012
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	\$ICP	Barium	0.0362	mg/L	0.003
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	\$ICP	Beryllium	0.00	mg/L	0.009
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	\$ICP	Cadmium	0.00	mg/L	0.012
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	\$ICP	Calcium	60.4	mg/L	0.066
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	\$ICP	Chromium	0.00	mg/L	0.006
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	\$ICP	Cobalt	0.00	mg/L	0.006
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	\$ICP	Copper	0.00992	mg/L	0.006
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	\$ICP	Iron	0.230	mg/L	0.018
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	\$ICP	Lead	0.00	mg/L	0.006
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	\$ICP	Magnesium	14.8	mg/L	0.021
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	\$ICP	Manganese	0.0322	mg/L	0.009
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	\$ICP	Nickel	0.00	mg/L	0.003
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	\$ICP	Selenium	0.0845	mg/L	0.009
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	\$ICP	Silver	0.00	mg/L	0.003
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	\$ICP	Strontium	0.242	mg/L	0.009
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	\$ICP	Thallium	0.0196	mg/L	0.012
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	\$ICP	Tin	0.00	mg/L	0.006
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	\$ICP	Vanadium	0.00	mg/L	0.018
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	\$ICP	Zinc	0.0330	mg/L	0.006
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	AS_FU	Arsenic by Furnace	3.785	ug/L	1.0
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	CU_FU	Copper by Furnace	8.2	ug/L	1
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	NH3	Ammonia as N	0	mg/L	0.5
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	NO3NO2	Nitrate + Nitrite	11.5	mg/L	0.5
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	TKP	Total Kjeldahl Phosphorus	2.048	mg/L	0.5
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	NO2	Nitrite as N	0.0602	mg/l	0.005
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	NO3	Nitrate as N (calculated)	11.4398	mg/l	
AC04228	LM37	Little Miami Watershed	37	7/24/2012	08:35	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	MF_CF	Fecal Coliform, Membrane Filter	300	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	E-COLI	E.coli (Colilert)	179	MPN	
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	TDS	Total Dissolved Solids	260	mg/L	
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	SO4	Sulfate	55.2	mg/L	12.5
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	CL	Chloride	99.6	mg/L	1.00
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	TSS	Tot. Suspended Solids	26	mg/L	2
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	SSC	Suspended Sediment Concentration	19.0	mg/L	5.0
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	HARD	Hardness as CaCO3	292	mg/l	
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	COD	COD	29	mg/L	
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	869	uS/cm	
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	TEMP_FLD	Temperature (Field) Celsius	27.89	Deg C	
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	PH_FLD	pH (Field)	7.86	S.U.	
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	DO_FLD	Dissolved Oxygen (field) mg/L	7.20	mg/l	
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	CONDUCTIVITY	Specific Conductivity (uS/cm)	824	uS/cm	
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	\$ICP	Aluminum	0.363	mg/L	0.348
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	\$ICP	Antimony	0.00665	mg/L	0.006
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	\$ICP	Arsenic	0.0414	mg/L	0.012
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	\$ICP	Barium	0.0733	mg/L	0.003
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	\$ICP	Beryllium	0.00	mg/L	0.009
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	\$ICP	Cadmium	0.00	mg/L	0.012
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	\$ICP	Calcium	67.8	mg/L	0.066
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	\$ICP	Chromium	0.00	mg/L	0.006
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	\$ICP	Cobalt	0.00	mg/L	0.006
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	\$ICP	Copper	0.00	mg/L	0.006
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	\$ICP	Iron	0.562	mg/L	0.018
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	\$ICP	Lead	0.00	mg/L	0.006
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	\$ICP	Magnesium	25.3	mg/L	0.021
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	\$ICP	Manganese	0.0685	mg/L	0.009
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	\$ICP	Nickel	0.00	mg/L	0.003
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	\$ICP	Selenium	0.0908	mg/L	0.009
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	\$ICP	Silver	0.00	mg/L	0.003
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	\$ICP	Strontium	0.350	mg/L	0.009
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	\$ICP	Thallium	0.0145	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	\$ICP	Tin	0.00	mg/L	0.006
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	\$ICP	Vanadium	0.00	mg/L	0.018
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	\$ICP	Zinc	0.0133	mg/L	0.006
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	PB_FU	Lead by Furnace	0.190	ug/L	0.5
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	AS_FU	Arsenic by Furnace	2.349	ug/L	1.0
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	CU_FU	Copper by Furnace	2.7	ug/L	1
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	NH3	Ammonia as N	0	mg/L	0.5
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	NO3NO2	Nitrate + Nitrite	1.57	mg/L	0.5
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	TKN	Total Kjeldahl Nitrogen	0.5482	mg/L	0.5
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	NO2	Nitrite as N	0.0197	mg/l	0.005
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	NO3	Nitrate as N (calculated)	1.5503	mg/l	
AC04229	LM07	Little Miami Watershed	7	7/24/2012	09:05	CHLOROPHYLL	Chlorophyll	11.2	mg/m3	1.00
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	MF_CF	Fecal Coliform, Membrane Filter	562	CFU/100mL	
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	E-COLI	E.coli (Colilert)	140	MPN	
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	TDS	Total Dissolved Solids	260	mg/L	
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	SO4	Sulfate	55.8	mg/L	12.5
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	CL	Chloride	99.6	mg/L	1.00
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	TSS	Tot. Suspended Solids	28	mg/L	2
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	SSC	Suspended Sediment Concentration	16.0	mg/L	5.0
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	HARD	Hardness as CaCO3	282	mg/l	
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	COD	COD	32	mg/L	
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	857	uS/cm	
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	TEMP_FLD	Temperature (Field) Celsius	27.98	Deg C	
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	PH_FLD	pH (Field)	7.96	S.U.	
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	DO_FLD	Dissolved Oxygen (field) mg/L	8.35	mg/l	
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	811	uS/cm	
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	\$ICP	Antimony	0.00660	mg/L	0.006
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	\$ICP	Arsenic	0.0445	mg/L	0.012
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	\$ICP	Barium	0.0702	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	\$ICP	Calcium	66.9	mg/L	0.066
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	\$ICP	Chromium	0.00	mg/L	0.006
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	\$ICP	Copper	0.00	mg/L	0.006
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	\$ICP	Iron	0.374	mg/L	0.018
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	\$ICP	Lead	0.00996	mg/L	0.006
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	\$ICP	Magnesium	24.6	mg/L	0.021
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	\$ICP	Manganese	0.0518	mg/L	0.009
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	\$ICP	Nickel	0.00313	mg/L	0.003
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	\$ICP	Selenium	0.0681	mg/L	0.009
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	\$ICP	Silver	0.00	mg/L	0.003
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	\$ICP	Strontium	0.341	mg/L	0.009
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	\$ICP	Thallium	0.00	mg/L	0.012
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	\$ICP	Tin	0.00	mg/L	0.006
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	\$ICP	Zinc	0.0135	mg/L	0.006
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	AS_FU	Arsenic by Furnace	3.373	ug/L	1.0
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	CU_FU	Copper by Furnace	2.9	ug/L	1
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	NH3	Ammonia as N	0	mg/L	0.5
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	NO3NO2	Nitrate + Nitrite	1.53	mg/L	0.5
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	NO2	Nitrite as N	0.0200	mg/l	0.005
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	NO3	Nitrate as N (calculated)	1.5100	mg/l	
AC04230	LM08	Little Miami Watershed	8 (3261-06)	7/24/2012	09:30	CHLOROPHYLL	Chlorophyll	16.6	mg/m3	1.00
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	MF_CF	Fecal Coliform, Membrane Filter	340	CFU/100mL	
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	E-COLI	E.coli (Colilert)	649	MPN	
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	TDS	Total Dissolved Solids	310	mg/L	
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	BOD	Biochemical Oxygen Demand	2	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	SO4	Sulfate	42.5	mg/L	12.5
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	CL	Chloride	72.2	mg/L	1.00
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	TSS	Tot. Suspended Solids	18	mg/L	2
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	SSC	Suspended Sediment Concentration	5.0	mg/L	5.0
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	HARD	Hardness as CaCO3	200	mg/l	
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	COD	COD	33	mg/L	
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	556	uS/cm	
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	TEMP_FLD	Temperature (Field) Celsius	26.43	Deg C	
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	PH_FLD	pH (Field)	7.28	S.U.	
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	DO_FLD	Dissolved Oxygen (field) mg/L	6.13	mg/l	
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	541	uS/cm	
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	\$ICP	Aluminum	0.00	mg/L	0.348
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	\$ICP	Antimony	0.00616	mg/L	0.006
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	\$ICP	Arsenic	0.0177	mg/L	0.012
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	\$ICP	Barium	0.0369	mg/L	0.003
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	\$ICP	Beryllium	0.00	mg/L	0.009
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	\$ICP	Cadmium	0.00	mg/L	0.012
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	\$ICP	Calcium	55.6	mg/L	0.066
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	\$ICP	Chromium	0.00	mg/L	0.006
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	\$ICP	Cobalt	0.00	mg/L	0.006
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	\$ICP	Copper	0.00	mg/L	0.006
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	\$ICP	Iron	0.141	mg/L	0.018
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	\$ICP	Lead	0.00	mg/L	0.006
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	\$ICP	Magnesium	11.4	mg/L	0.021
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	\$ICP	Manganese	0.124	mg/L	0.009
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	\$ICP	Nickel	0.00	mg/L	0.003
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	\$ICP	Selenium	0.0552	mg/L	0.009
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	\$ICP	Silver	0.00	mg/L	0.003
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	\$ICP	Strontium	0.229	mg/L	0.009
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	\$ICP	Thallium	0.00	mg/L	0.012
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	\$ICP	Tin	0.00	mg/L	0.006
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	\$ICP	Vanadium	0.00	mg/L	0.018
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	\$ICP	Zinc	0.00706	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	AS_FU	Arsenic by Furnace	2.204	ug/L	1.0
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	CU_FU	Copper by Furnace	2.5	ug/L	1
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	NH3	Ammonia as N	0	mg/L	0.5
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	NO2	Nitrite as N	0.0056	mg/l	0.005
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04231	LM52	Little Miami Watershed	52	7/24/2012	10:35	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	MF_CF	Fecal Coliform, Membrane Filter	100	CFU/100mL	
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	E-COLI	E.coli (Colilert)	102	MPN	
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	TDS	Total Dissolved Solids	150	mg/L	
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	SO4	Sulfate	42.2	mg/L	12.5
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	CL	Chloride	73.8	mg/L	1.00
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	TSS	Tot. Suspended Solids	24	mg/L	2
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	HARD	Hardness as CaCO3	210	mg/l	
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	COD	COD	32	mg/L	
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	594	uS/cm	
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	TEMP_FLD	Temperature (Field) Celsius	26.11	Deg C	
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	PH_FLD	pH (Field)	7.37	S.U.	
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	DO_FLD	Dissolved Oxygen (field) mg/L	6.15	mg/l	
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	582	uS/cm	
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	\$ICP	Aluminum	0.00	mg/L	0.348
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	\$ICP	Antimony	0.0116	mg/L	0.006
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	\$ICP	Arsenic	0.0402	mg/L	0.012
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	\$ICP	Barium	0.0350	mg/L	0.003
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	\$ICP	Calcium	55.7	mg/L	0.066



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	\$ICP	Chromium	0.00	mg/L	0.006
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	\$ICP	Copper	0.00	mg/L	0.006
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	\$ICP	Iron	0.125	mg/L	0.018
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	\$ICP	Lead	0.00	mg/L	0.006
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	\$ICP	Magnesium	11.5	mg/L	0.021
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	\$ICP	Manganese	0.0511	mg/L	0.009
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	\$ICP	Nickel	0.00	mg/L	0.003
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	\$ICP	Selenium	0.0490	mg/L	0.009
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	\$ICP	Silver	0.00	mg/L	0.003
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	\$ICP	Strontium	0.228	mg/L	0.009
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	\$ICP	Thallium	0.00	mg/L	0.012
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	\$ICP	Tin	0.00	mg/L	0.006
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	\$ICP	Zinc	0.00736	mg/L	0.006
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	AS_FU	Arsenic by Furnace	1.403	ug/L	1.0
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	CU_FU	Copper by Furnace	2.4	ug/L	1
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	NH3	Ammonia as N	0	mg/L	0.5
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	NO2	Nitrite as N	0.0067	mg/l	0.005
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04232	LM51	Little Miami Watershed	51	7/24/2012	10:45	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	150	CFU/100mL	
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	E-COLI	E.coli (Colilert)	105	MPN	
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	TDS	Total Dissolved Solids	150	mg/L	
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	SO4	Sulfate	52.8	mg/L	12.5
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	CL	Chloride	75.4	mg/L	1.00
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	TSS	Tot. Suspended Solids	54	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	SSC	Suspended Sediment Concentration	27.0	mg/L	5.0
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	HARD	Hardness as CaCO3	200	mg/l	
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	COD	COD	31	mg/L	
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	593	uS/cm	
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	26.15	Deg C	
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	PH_FLD	pH (Field)	7.13	S.U.	
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	7.40	mg/l	
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	580	uS/cm	
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	\$ICP	Antimony	0.00	mg/L	0.006
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	\$ICP	Arsenic	0.0281	mg/L	0.012
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	\$ICP	Barium	0.0320	mg/L	0.003
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	\$ICP	Calcium	56.1	mg/L	0.066
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	\$ICP	Chromium	0.00	mg/L	0.006
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	\$ICP	Copper	0.0175	mg/L	0.006
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	\$ICP	Iron	0.621	mg/L	0.018
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	\$ICP	Lead	0.00	mg/L	0.006
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	\$ICP	Magnesium	10.3	mg/L	0.021
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	\$ICP	Manganese	0.117	mg/L	0.009
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	\$ICP	Nickel	0.00	mg/L	0.003
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	\$ICP	Selenium	0.0916	mg/L	0.009
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	\$ICP	Silver	0.00	mg/L	0.003
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	\$ICP	Strontium	0.271	mg/L	0.009
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	\$ICP	Thallium	0.00	mg/L	0.012
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	\$ICP	Tin	0.00	mg/L	0.006
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	\$ICP	Zinc	0.0215	mg/L	0.006
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	AS_FU	Arsenic by Furnace	0.959	ug/L	1.0
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	CD_FU	Cadmium by Furnace	AA	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	CU_FU	Copper by Furnace	3.0	ug/L	1
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	NO2	Nitrite as N	0.0062	mg/l	0.005
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04233	LM50	Little Miami Watershed	50	7/24/2012	11:00	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	MF_CF	Fecal Coliform, Membrane Filter	240	CFU/100mL	
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	E-COLI	E.coli (Colilert)	192	MPN	
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	TDS	Total Dissolved Solids	210	mg/L	
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	SO4	Sulfate	45.2	mg/L	12.5
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	CL	Chloride	84.1	mg/L	1.00
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	TSS	Tot. Suspended Solids	30	mg/L	2
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	SSC	Suspended Sediment Concentration	12.0	mg/L	5.0
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	HARD	Hardness as CaCO3	228	mg/l	
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	COD	COD	36	mg/L	
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	690	uS/cm	
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	TEMP_FLD	Temperature (Field) Celsius	24.93	Deg C	
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	PH_FLD	pH (Field)	7.95	S.U.	
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	DO_FLD	Dissolved Oxygen (field) mg/L	11.70	mg/l	
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	691	uS/cm	
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	\$ICP	Aluminum	0.00	mg/L	0.348
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	\$ICP	Antimony	0.00789	mg/L	0.006
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	\$ICP	Arsenic	0.0239	mg/L	0.012
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	\$ICP	Barium	0.0329	mg/L	0.003
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	\$ICP	Calcium	66.7	mg/L	0.066
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	\$ICP	Chromium	0.00	mg/L	0.006
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	\$ICP	Copper	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	\$ICP	Iron	0.120	mg/L	0.018
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	\$ICP	Lead	0.00774	mg/L	0.006
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	\$ICP	Magnesium	12.5	mg/L	0.021
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	\$ICP	Manganese	0.0286	mg/L	0.009
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	\$ICP	Nickel	0.00	mg/L	0.003
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	\$ICP	Selenium	0.0684	mg/L	0.009
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	\$ICP	Silver	0.00	mg/L	0.003
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	\$ICP	Strontium	0.318	mg/L	0.009
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	\$ICP	Thallium	0.00	mg/L	0.012
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	\$ICP	Tin	0.00	mg/L	0.006
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	\$ICP	Zinc	0.0298	mg/L	0.006
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	AS_FU	Arsenic by Furnace	1.727	ug/L	1.0
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	CU_FU	Copper by Furnace	2.9	ug/L	1
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	NH3	Ammonia as N	0	mg/L	0.5
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	NO2	Nitrite as N	0.0055	mg/l	0.005
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04234	LM49	Little Miami Watershed	49	7/24/2012	11:15	CHLOROPHYLL	Chlorophyll	7.48	mg/m3	1.00
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	MF_CF	Fecal Coliform, Membrane Filter	733	CFU/100mL	
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	E-COLI	E.coli (Colilert)	579	MPN	
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	TDS	Total Dissolved Solids	300	mg/L	
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	SO4	Sulfate	81.0	mg/L	25.0
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	CL	Chloride	36.0	mg/L	1.00
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	TSS	Tot. Suspended Solids	2	mg/L	2
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	HARD	Hardness as CaCO3	300	mg/l	
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	COD	COD	14	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	525	uS/cm	
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	TEMP_FLD	Temperature (Field) Celsius	22.47	Deg C	
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	PH_FLD	pH (Field)	7.81	S.U.	
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	DO_FLD	Dissolved Oxygen (field) mg/L	8.18	mg/l	
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	CONDUCTIVITY	Specific Conductivity (uS/cm)	552	uS/cm	
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	\$ICP	Aluminum	0.00	mg/L	0.348
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	\$ICP	Antimony	0.000	mg/L	0.006
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	\$ICP	Arsenic	0.026	mg/L	0.012
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	\$ICP	Barium	0.0327	mg/L	0.003
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	\$ICP	Beryllium	0.000	mg/L	0.009
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	\$ICP	Cadmium	0.000	mg/L	0.012
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	\$ICP	Calcium	68.7	mg/L	0.066
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	\$ICP	Chromium	0.000	mg/L	0.006
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	\$ICP	Cobalt	0.000	mg/L	0.006
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	\$ICP	Copper	0.000	mg/L	0.006
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	\$ICP	Iron	0.139	mg/L	0.018
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	\$ICP	Lead	0.007	mg/L	0.006
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	\$ICP	Magnesium	15.200	mg/L	0.021
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	\$ICP	Manganese	0.00	mg/L	0.009
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	\$ICP	Nickel	0.000	mg/L	0.003
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	\$ICP	Selenium	0.082	mg/L	0.009
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	\$ICP	Silver	0.000	mg/L	0.003
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	\$ICP	Strontium	0.270	mg/L	0.009
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	\$ICP	Thallium	0.000	mg/L	0.012
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	\$ICP	Tin	0.000	mg/L	0.006
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	\$ICP	Vanadium	0.000	mg/L	0.018
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	\$ICP	Zinc	0.009	mg/L	0.006
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	\$ICP	Titanium	0.000	mg/L	
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	AS_FU	Arsenic by Furnace	0.243	ug/L	1.0
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	CU_FU	Copper by Furnace	2.4	ug/L	1
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	NH3	Ammonia as N	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	TKN	Total Kjeldahl Nitrogen	0.3166	mg/L	0.5
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	TKP	Total Kjeldahl Phosphorus	0.3135	mg/L	0.5
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	NO2	Nitrite as N	0.0034	mg/l	0.005
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04303	LM66	Little Miami Watershed	66	7/25/2012	08:25	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	MF_CF	Fecal Coliform, Membrane Filter	1967	CFU/100mL	
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	E-COLI	E.coli (Colilert)	980	MPN	
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	TDS	Total Dissolved Solids	330	mg/L	
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	SO4	Sulfate	55.5	mg/L	25.0
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	CL	Chloride	47.8	mg/L	1.00
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	TSS	Tot. Suspended Solids	4	mg/L	2
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	HARD	Hardness as CaCO3	304	mg/l	
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	COD	COD	7	mg/L	
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	540	uS/cm	
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	TEMP_FLD	Temperature (Field) Celsius	22.56	Deg C	
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	PH_FLD	pH (Field)	7.55	S.U.	
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	DO_FLD	Dissolved Oxygen (field) mg/L	7.30	mg/l	
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	567	uS/cm	
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	\$ICP	Aluminum	0.00	mg/L	0.348
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	\$ICP	Antimony	0.000	mg/L	0.006
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	\$ICP	Arsenic	0.017	mg/L	0.012
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	\$ICP	Barium	0.0326	mg/L	0.003
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	\$ICP	Beryllium	0.000	mg/L	0.009
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	\$ICP	Cadmium	0.000	mg/L	0.012
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	\$ICP	Calcium	74.6	mg/L	0.066
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	\$ICP	Chromium	0.000	mg/L	0.006
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	\$ICP	Cobalt	0.000	mg/L	0.006
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	\$ICP	Copper	0.000	mg/L	0.006
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	\$ICP	Iron	0.0835	mg/L	0.018
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	\$ICP	Lead	0.009	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	\$ICP	Magnesium	15.100	mg/L	0.021
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	\$ICP	Manganese	0.0230	mg/L	0.009
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	\$ICP	Nickel	0.000	mg/L	0.003
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	\$ICP	Selenium	0.054	mg/L	0.009
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	\$ICP	Silver	0.000	mg/L	0.003
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	\$ICP	Strontium	0.279	mg/L	0.009
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	\$ICP	Thallium	0.000	mg/L	0.012
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	\$ICP	Tin	0.000	mg/L	0.006
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	\$ICP	Vanadium	0.000	mg/L	0.018
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	\$ICP	Zinc	0.006	mg/L	0.006
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	\$ICP	Titanium	0.000	mg/L	
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	AS_FU	Arsenic by Furnace	0	ug/L	1.0
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	CU_FU	Copper by Furnace	2.3	ug/L	1
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	NH3	Ammonia as N	0	mg/L	0.5
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	NO3NO2	Nitrate + Nitrite	0.519	mg/L	0.5
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	TKN	Total Kjeldahl Nitrogen	0.1102	mg/L	0.5
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	TKP	Total Kjeldahl Phosphorus	0.3082	mg/L	0.5
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	NO2	Nitrite as N	0.0065	mg/l	0.005
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	NO3	Nitrate as N (calculated)	0.5125	mg/l	
AC04304	LM67	Little Miami Watershed	67	7/25/2012	08:45	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	E-COLI	E.coli (Colilert)	2420	MPN	
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	TDS	Total Dissolved Solids	200	mg/L	
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	SO4	Sulfate	25.5	mg/L	12.5
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	CL	Chloride	38.4	mg/L	1.00
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	TSS	Tot. Suspended Solids	114	mg/L	2
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	SSC	Suspended Sediment Concentration	142	mg/L	5.0
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	HARD	Hardness as CaCO3	224	mg/l	
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	COD	COD	24	mg/L	
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	382	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	TEMP_FLD	Temperature (Field) Celsius	24.47	Deg C	
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	PH_FLD	pH (Field)	7.40	S.U.	
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	DO_FLD	Dissolved Oxygen (field) mg/L	6.63	mg/l	
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	CONDUCTIVITY	Specific Conductivity (uS/cm)	386	uS/cm	
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	\$ICP	Aluminum	3.83	mg/L	0.348
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	\$ICP	Antimony	0.000	mg/L	0.006
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	\$ICP	Arsenic	0.034	mg/L	0.012
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	\$ICP	Barium	0.0498	mg/L	0.003
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	\$ICP	Beryllium	0.000	mg/L	0.009
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	\$ICP	Cadmium	0.000	mg/L	0.012
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	\$ICP	Calcium	39.9	mg/L	0.066
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	\$ICP	Chromium	0.000	mg/L	0.006
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	\$ICP	Cobalt	0.000	mg/L	0.006
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	\$ICP	Copper	0.008	mg/L	0.006
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	\$ICP	Iron	5.90	mg/L	0.018
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	\$ICP	Lead	0.013	mg/L	0.006
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	\$ICP	Magnesium	10.700	mg/L	0.021
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	\$ICP	Manganese	0.187	mg/L	0.009
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	\$ICP	Nickel	0.005	mg/L	0.003
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	\$ICP	Selenium	0.055	mg/L	0.009
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	\$ICP	Silver	0.000	mg/L	0.003
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	\$ICP	Strontium	0.157	mg/L	0.009
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	\$ICP	Thallium	0.000	mg/L	0.012
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	\$ICP	Tin	0.000	mg/L	0.006
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	\$ICP	Vanadium	0.000	mg/L	0.018
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	\$ICP	Zinc	0.031	mg/L	0.006
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	\$ICP	Titanium	0.000	mg/L	
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	PB_FU	Lead by Furnace	5.985	ug/L	0.5
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	AS_FU	Arsenic by Furnace	3.017	ug/L	1.0
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	CU_FU	Copper by Furnace	6.8	ug/L	1
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	NH3	Ammonia as N	0	mg/L	0.5
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	NO3NO2	Nitrate + Nitrite	1.22	mg/L	0.5



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	TKN	Total Kjeldahl Nitrogen	0.9298	mg/L	0.5
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	TKP	Total Kjeldahl Phosphorus	0.5435	mg/L	0.5
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	NO2	Nitrite as N	0.0277	mg/l	0.005
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	NO3	Nitrate as N (calculated)	1.1923	mg/l	
AC04305	LM12	Little Miami Watershed	12 (3261-04)	7/25/2012	09:05	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	E-COLI	E.coli (Colilert)	2420	MPN	
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	TDS	Total Dissolved Solids	210	mg/L	
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	SO4	Sulfate	29.5	mg/L	12.5
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	CL	Chloride	38.6	mg/L	1.00
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	TSS	Tot. Suspended Solids	160	mg/L	2
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	SSC	Suspended Sediment Concentration	148	mg/L	5.0
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	HARD	Hardness as CaCO3	266	mg/l	
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	COD	COD	30	mg/L	
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	388	uS/cm	
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	TEMP_FLD	Temperature (Field) Celsius	24.58	Deg C	
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	PH_FLD	pH (Field)	7.45	S.U.	
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	DO_FLD	Dissolved Oxygen (field) mg/L	6.26	mg/l	
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	391	uS/cm	
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	\$ICP	Aluminum	4.08	mg/L	0.348
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	\$ICP	Antimony	0.000	mg/L	0.006
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	\$ICP	Arsenic	0.022	mg/L	0.012
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	\$ICP	Barium	0.0537	mg/L	0.003
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	\$ICP	Beryllium	0.000	mg/L	0.009
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	\$ICP	Cadmium	0.000	mg/L	0.012
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	\$ICP	Calcium	43.2	mg/L	0.066
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	\$ICP	Chromium	0.000	mg/L	0.006
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	\$ICP	Cobalt	0.000	mg/L	0.006
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	\$ICP	Copper	0.008	mg/L	0.006
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	\$ICP	Iron	6.41	mg/L	0.018
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	\$ICP	Lead	0.007	mg/L	0.006
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	\$ICP	Magnesium	11.500	mg/L	0.021

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	\$ICP	Manganese	0.209	mg/L	0.009
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	\$ICP	Nickel	0.005	mg/L	0.003
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	\$ICP	Selenium	0.066	mg/L	0.009
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	\$ICP	Silver	0.000	mg/L	0.003
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	\$ICP	Strontium	0.168	mg/L	0.009
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	\$ICP	Thallium	0.000	mg/L	0.012
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	\$ICP	Tin	0.000	mg/L	0.006
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	\$ICP	Vanadium	0.000	mg/L	0.018
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	\$ICP	Zinc	0.029	mg/L	0.006
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	\$ICP	Titanium	0.000	mg/L	
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	PB_FU	Lead by Furnace	6.641	ug/L	0.5
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	AS_FU	Arsenic by Furnace	2.876	ug/L	1.0
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	CU_FU	Copper by Furnace	4.4	ug/L	1
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	NH3	Ammonia as N	0	mg/L	0.5
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	NO3NO2	Nitrate + Nitrite	1.21	mg/L	0.5
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	TKN	Total Kjeldahl Nitrogen	1.2240	mg/L	0.5
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	TKP	Total Kjeldahl Phosphorus	0.5763	mg/L	0.5
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	NO2	Nitrite as N	0.0292	mg/l	0.005
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	NO3	Nitrate as N (calculated)	1.1808	mg/l	
AC04306	LM13	Little Miami Watershed	13 (3261-03)	7/25/2012	09:35	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	E-COLI	E.coli (Colilert)	2420	MPN	
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	TDS	Total Dissolved Solids	240	mg/L	
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	SO4	Sulfate	31.5	mg/L	12.5
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	CL	Chloride	40.3	mg/L	1.00
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	TSS	Tot. Suspended Solids	120	mg/L	2
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	SSC	Suspended Sediment Concentration	116	mg/L	5.0
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	HARD	Hardness as CaCO3	240	mg/l	
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	COD	COD	23	mg/L	
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	431	uS/cm	
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	25.06	Deg C	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	PH_FLD	pH (Field)	7.00	S.U.	
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	5.40	mg/l	
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	430	uS/cm	
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	\$ICP	Aluminum	3.20	mg/L	0.348
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	\$ICP	Antimony	0.006	mg/L	0.006
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	\$ICP	Arsenic	0.036	mg/L	0.012
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	\$ICP	Barium	0.0500	mg/L	0.003
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	\$ICP	Beryllium	0.000	mg/L	0.009
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	\$ICP	Cadmium	0.000	mg/L	0.012
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	\$ICP	Calcium	43.2	mg/L	0.066
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	\$ICP	Chromium	0.000	mg/L	0.006
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	\$ICP	Cobalt	0.000	mg/L	0.006
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	\$ICP	Copper	0.007	mg/L	0.006
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	\$ICP	Iron	4.90	mg/L	0.018
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	\$ICP	Lead	0.000	mg/L	0.006
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	\$ICP	Magnesium	11.600	mg/L	0.021
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	\$ICP	Manganese	0.164	mg/L	0.009
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	\$ICP	Nickel	0.004	mg/L	0.003
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	\$ICP	Selenium	0.000	mg/L	0.009
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	\$ICP	Silver	0.000	mg/L	0.003
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	\$ICP	Strontium	0.172	mg/L	0.009
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	\$ICP	Thallium	0.021	mg/L	0.012
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	\$ICP	Tin	0.000	mg/L	0.006
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	\$ICP	Vanadium	0.000	mg/L	0.018
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	\$ICP	Zinc	0.023	mg/L	0.006
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	\$ICP	Titanium	0.000	mg/L	
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	PB_FU	Lead by Furnace	13.25	ug/L	0.5
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	AS_FU	Arsenic by Furnace	2.846	ug/L	1.0
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	CU_FU	Copper by Furnace	5.7	ug/L	1
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	NO3NO2	Nitrate + Nitrite	1.17	mg/L	0.5
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	TKN	Total Kjeldahl Nitrogen	0.9390	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	TKP	Total Kjeldahl Phosphorus	0.5238	mg/L	0.5
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	NO2	Nitrite as N	0.0291	mg/l	0.005
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	NO3	Nitrate as N (calculated)	1.1409	mg/l	
AC04307	LM14	Little Miami Watershed	14	7/25/2012	10:00	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	E-COLI	E.coli (Colilert)	2420	MPN	
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	TDS	Total Dissolved Solids	250	mg/L	
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	SO4	Sulfate	29.0	mg/L	12.5
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	CL	Chloride	39.9	mg/L	1.00
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	TSS	Tot. Suspended Solids	114	mg/L	2
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	SSC	Suspended Sediment Concentration	164	mg/L	5.0
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	HARD	Hardness as CaCO3	246	mg/l	
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	COD	COD	24	mg/L	
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	362	uS/cm	
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	TEMP_FLD	Temperature (Field) Celsius	26.47	Deg C	
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	PH_FLD	pH (Field)	7.31	S.U.	
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	DO_FLD	Dissolved Oxygen (field) mg/L	7.10	mg/l	
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	351	uS/cm	
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	\$ICP	Aluminum	3.76	mg/L	0.348
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	\$ICP	Antimony	0.000	mg/L	0.006
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	\$ICP	Arsenic	0.028	mg/L	0.012
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	\$ICP	Barium	0.0541	mg/L	0.003
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	\$ICP	Beryllium	0.000	mg/L	0.009
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	\$ICP	Cadmium	0.000	mg/L	0.012
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	\$ICP	Calcium	43.7	mg/L	0.066
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	\$ICP	Chromium	0.000	mg/L	0.006
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	\$ICP	Cobalt	0.000	mg/L	0.006
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	\$ICP	Copper	0.008	mg/L	0.006
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	\$ICP	Iron	5.93	mg/L	0.018
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	\$ICP	Lead	0.008	mg/L	0.006
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	\$ICP	Magnesium	11.600	mg/L	0.021
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	\$ICP	Manganese	0.205	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	\$ICP	Nickel	0.006	mg/L	0.003
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	\$ICP	Selenium	0.078	mg/L	0.009
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	\$ICP	Silver	0.000	mg/L	0.003
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	\$ICP	Strontium	0.168	mg/L	0.009
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	\$ICP	Thallium	0.036	mg/L	0.012
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	\$ICP	Tin	0.000	mg/L	0.006
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	\$ICP	Vanadium	0.000	mg/L	0.018
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	\$ICP	Zinc	0.030	mg/L	0.006
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	\$ICP	Titanium	0.000	mg/L	
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	PB_FU	Lead by Furnace	5.886	ug/L	0.5
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	AS_FU	Arsenic by Furnace	3.023	ug/L	1.0
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	CU_FU	Copper by Furnace	6.1	ug/L	1
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	NH3	Ammonia as N	0	mg/L	0.5
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	NO3NO2	Nitrate + Nitrite	1.17	mg/L	0.5
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	TKN	Total Kjeldahl Nitrogen	1.0008	mg/L	0.5
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	TKP	Total Kjeldahl Phosphorus	0.5707	mg/L	0.5
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	NO2	Nitrite as N	0.0283	mg/l	0.005
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	NO3	Nitrate as N (calculated)	1.1417	mg/l	
AC04308	LM15	Little Miami Watershed	15	7/25/2012	10:20	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	E-COLI	E.coli (Colilert)	2420	MPN	
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	TDS	Total Dissolved Solids	260	mg/L	
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	SO4	Sulfate	32.2	mg/L	12.5
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	CL	Chloride	40.9	mg/L	1.00
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	TSS	Tot. Suspended Solids	98	mg/L	2
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	SSC	Suspended Sediment Concentration	129	mg/L	5.0
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	HARD	Hardness as CaCO3	246	mg/l	
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	COD	COD	22	mg/L	
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	413	uS/cm	
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	TEMP_FLD	Temperature (Field) Celsius	25.34	Deg C	
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	PH_FLD	pH (Field)	7.03	S.U.	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	DO_FLD	Dissolved Oxygen (field) mg/L	5.71	mg/l	
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	410	uS/cm	
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	\$ICP	Aluminum	3.65	mg/L	0.348
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	\$ICP	Antimony	0.000	mg/L	0.006
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	\$ICP	Arsenic	0.051	mg/L	0.012
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	\$ICP	Barium	0.0530	mg/L	0.003
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	\$ICP	Beryllium	0.000	mg/L	0.009
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	\$ICP	Cadmium	0.000	mg/L	0.012
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	\$ICP	Calcium	42.5	mg/L	0.066
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	\$ICP	Chromium	0.000	mg/L	0.006
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	\$ICP	Cobalt	0.000	mg/L	0.006
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	\$ICP	Copper	0.008	mg/L	0.006
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	\$ICP	Iron	5.71	mg/L	0.018
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	\$ICP	Lead	0.012	mg/L	0.006
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	\$ICP	Magnesium	11.400	mg/L	0.021
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	\$ICP	Manganese	0.189	mg/L	0.009
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	\$ICP	Nickel	0.005	mg/L	0.003
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	\$ICP	Selenium	0.072	mg/L	0.009
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	\$ICP	Silver	0.000	mg/L	0.003
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	\$ICP	Strontium	0.169	mg/L	0.009
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	\$ICP	Thallium	0.030	mg/L	0.012
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	\$ICP	Tin	0.000	mg/L	0.006
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	\$ICP	Vanadium	0.000	mg/L	0.018
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	\$ICP	Zinc	0.026	mg/L	0.006
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	\$ICP	Titanium	0.000	mg/L	
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	PB_FU	Lead by Furnace	5.340	ug/L	0.5
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	AS_FU	Arsenic by Furnace	3.108	ug/L	1.0
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	CU_FU	Copper by Furnace	5.7	ug/L	1
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	NH3	Ammonia as N	0	mg/L	0.5
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	NO3NO2	Nitrate + Nitrite	1.15	mg/L	0.5
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	TKN	Total Kjeldahl Nitrogen	1.2194	mg/L	0.5
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	TKP	Total Kjeldahl Phosphorus	0.5702	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	NO2	Nitrite as N	0.0310	mg/l	0.005
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	NO3	Nitrate as N (calculated)	1.1190	mg/l	
AC04309	LM16	Little Miami Watershed	16 (3261-02)	7/25/2012	10:40	CHLOROPHYLL	Chlorophyll	4.27	mg/m3	1.00
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	E-COLI	E.coli (Colilert)	2420	MPN	
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	TDS	Total Dissolved Solids	240	mg/L	
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	SO4	Sulfate	29.5	mg/L	12.5
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	CL	Chloride	39.4	mg/L	1.00
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	TSS	Tot. Suspended Solids	86	mg/L	2
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	SSC	Suspended Sediment Concentration	134	mg/L	5.0
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	HARD	Hardness as CaCO3	242	mg/l	
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	COD	COD	22	mg/L	
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	424	uS/cm	
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	TEMP_FLD	Temperature (Field) Celsius	25.28	Deg C	
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	PH_FLD	pH (Field)	7.20	S.U.	
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	DO_FLD	Dissolved Oxygen (field) mg/L	5.07	mg/l	
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	421	uS/cm	
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	\$ICP	Aluminum	3.85	mg/L	0.348
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	\$ICP	Antimony	0.000	mg/L	0.006
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	\$ICP	Arsenic	0.022	mg/L	0.012
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	\$ICP	Barium	0.0525	mg/L	0.003
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	\$ICP	Beryllium	0.000	mg/L	0.009
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	\$ICP	Cadmium	0.000	mg/L	0.012
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	\$ICP	Calcium	42.2	mg/L	0.066
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	\$ICP	Chromium	0.000	mg/L	0.006
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	\$ICP	Cobalt	0.000	mg/L	0.006
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	\$ICP	Copper	0.009	mg/L	0.006
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	\$ICP	Iron	6.06	mg/L	0.018
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	\$ICP	Lead	0.008	mg/L	0.006
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	\$ICP	Magnesium	11.400	mg/L	0.021
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	\$ICP	Manganese	0.160	mg/L	0.009
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	\$ICP	Nickel	0.006	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	\$ICP	Selenium	0.036	mg/L	0.009
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	\$ICP	Silver	0.000	mg/L	0.003
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	\$ICP	Strontium	0.168	mg/L	0.009
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	\$ICP	Thallium	0.028	mg/L	0.012
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	\$ICP	Tin	0.000	mg/L	0.006
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	\$ICP	Vanadium	0.000	mg/L	0.018
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	\$ICP	Zinc	0.029	mg/L	0.006
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	\$ICP	Titanium	0.000	mg/L	
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	PB_FU	Lead by Furnace	5.872	ug/L	0.5
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	AS_FU	Arsenic by Furnace	2.924	ug/L	1.0
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	CU_FU	Copper by Furnace	6.2	ug/L	1
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	NH3	Ammonia as N	0	mg/L	0.5
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	NO3NO2	Nitrate + Nitrite	1.12	mg/L	0.5
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	TKN	Total Kjeldahl Nitrogen	1.0828	mg/L	0.5
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	TKP	Total Kjeldahl Phosphorus	0.5440	mg/L	0.5
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	NO2	Nitrite as N	0.0277	mg/l	0.005
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	NO3	Nitrate as N (calculated)	1.0923	mg/l	
AC04310	LM17	Little Miami Watershed	17 (3261-01)	7/25/2012	12:10	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	MF_CF	Fecal Coliform, Membrane Filter	2700	CFU/100mL	
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	E-COLI	E.coli (Colilert)	1300	MPN	
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	TDS	Total Dissolved Solids	190	mg/L	
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	SO4	Sulfate	52.0	mg/L	25.0
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	CL	Chloride	24.7	mg/L	1.00
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	TSS	Tot. Suspended Solids	14	mg/L	2
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	SSC	Suspended Sediment Concentration	31.0	mg/L	5.0
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	HARD	Hardness as CaCO3	258	mg/l	
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	COD	COD	25	mg/L	
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	368	uS/cm	
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	TEMP_FLD	Temperature (Field) Celsius	26.26	Deg C	
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	PH_FLD	pH (Field)	7.08	S.U.	
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	DO_FLD	Dissolved Oxygen (field) mg/L	5.94	mg/l	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	359	uS/cm	
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	\$ICP	Aluminum	1.10	mg/L	0.348
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	\$ICP	Antimony	0.0000	mg/L	0.0678
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	\$ICP	Arsenic	0.0000	mg/L	0.0284
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	\$ICP	Barium	0.0332	mg/L	0.003
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	\$ICP	Beryllium	0.0000	mg/L	0.0003
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	\$ICP	Cadmium	0.0000	mg/L	0.0005
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	\$ICP	Calcium	44.9	mg/L	0.066
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	\$ICP	Chromium	0.0000	mg/L	0.0009
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	\$ICP	Cobalt	0.0000	mg/L	0.0011
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	\$ICP	Copper	0.000	mg/L	0.002
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	\$ICP	Iron	1.86	mg/L	0.018
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	\$ICP	Lead	0.0000	mg/L	0.0041
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	\$ICP	Magnesium	8.9300	mg/L	0.0333
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	\$ICP	Manganese	0.148	mg/L	0.009
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	\$ICP	Nickel	0.0000	mg/L	0.0021
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	\$ICP	Selenium	0.0273	mg/L	0.0156
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	\$ICP	Silver	0.0000	mg/L	0.0011
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	\$ICP	Strontium	0.1540	mg/L	0.0005
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	\$ICP	Thallium	0.0000	mg/L	0.0100
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	\$ICP	Tin	0.000	mg/L	0.009
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	\$ICP	Vanadium	0.0000	mg/L	0.0006
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	\$ICP	Zinc	0.0190	mg/L	0.0058
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	\$ICP	Titanium	0.0000	mg/L	0.0022
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	PB_FU	Lead by Furnace	1.353	ug/L	0.5
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	AS_FU	Arsenic by Furnace	1.986	ug/L	1.0
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	CU_FU	Copper by Furnace	3.2	ug/L	1
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	NH3	Ammonia as N	0	mg/L	0.5
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	NO3NO2	Nitrate + Nitrite	1.41	mg/L	0.5
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	NO2	Nitrite as N	0.0182	mg/l	0.005

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	NO3	Nitrate as N (calculated)	1.3918	mg/l	
AC04369	LM31	Little Miami Watershed	31	7/26/2012	08:10	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	MF_CF	Fecal Coliform, Membrane Filter	1600	CFU/100mL	
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	E-COLI	E.coli (Colilert)	613	MPN	
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	TDS	Total Dissolved Solids	130	mg/L	
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	SO4	Sulfate	37.5	mg/L	12.5
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	CL	Chloride	22.2	mg/L	1.00
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	TSS	Tot. Suspended Solids	4	mg/L	2
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	SSC	Suspended Sediment Concentration	22.0	mg/L	5.0
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	HARD	Hardness as CaCO3	272	mg/l	
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	COD	COD	12	mg/L	
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	346	uS/cm	
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	TEMP_FLD	Temperature (Field) Celsius	26.22	Deg C	
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	PH_FLD	pH (Field)	7.18	S.U.	
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	DO_FLD	Dissolved Oxygen (field) mg/L	5.95	mg/l	
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	338	uS/cm	
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	\$ICP	Aluminum	0.790	mg/L	0.348
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	\$ICP	Antimony	0.0000	mg/L	0.0678
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	\$ICP	Arsenic	0.0270	mg/L	0.0284
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	\$ICP	Barium	0.0273	mg/L	0.003
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	\$ICP	Beryllium	0.0000	mg/L	0.0003
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	\$ICP	Cadmium	0.0000	mg/L	0.0005
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	\$ICP	Calcium	39.8	mg/L	0.066
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	\$ICP	Chromium	0.0000	mg/L	0.0009
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	\$ICP	Cobalt	0.0000	mg/L	0.0011
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	\$ICP	Copper	0.000	mg/L	0.002
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	\$ICP	Iron	1.22	mg/L	0.018
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	\$ICP	Lead	0.0096	mg/L	0.0041
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	\$ICP	Magnesium	8.2500	mg/L	0.0333
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	\$ICP	Manganese	0.0728	mg/L	0.009
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	\$ICP	Nickel	0.0000	mg/L	0.0021
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	\$ICP	Selenium	0.0218	mg/L	0.0156

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	\$ICP	Silver	0.0000	mg/L	0.0011
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	\$ICP	Strontium	0.1320	mg/L	0.0005
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	\$ICP	Thallium	0.0195	mg/L	0.0100
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	\$ICP	Tin	0.000	mg/L	0.009
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	\$ICP	Vanadium	0.0000	mg/L	0.0006
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	\$ICP	Zinc	0.0177	mg/L	0.0058
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	\$ICP	Titanium	0.0000	mg/L	0.0022
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	PB_FU	Lead by Furnace	1.495	ug/L	0.5
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	AS_FU	Arsenic by Furnace	1.966	ug/L	1.0
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	CU_FU	Copper by Furnace	5.6	ug/L	1
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	NH3	Ammonia as N	0	mg/L	0.5
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	NO3NO2	Nitrate + Nitrite	13.6	mg/L	0.5
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	NO2	Nitrite as N	0.0222	mg/l	0.005
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	NO3	Nitrate as N (calculated)	13.5778	mg/l	
AC04370	LM30	Little Miami Watershed	30	7/26/2012	08:35	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	MF_CF	Fecal Coliform, Membrane Filter	833	CFU/100mL	
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	E-COLI	E.coli (Colilert)	461	MPN	
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	TDS	Total Dissolved Solids	210	mg/L	
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	SO4	Sulfate	42.2	mg/L	12.5
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	CL	Chloride	28.3	mg/L	1.00
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	TSS	Tot. Suspended Solids	5	mg/L	2
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	SSC	Suspended Sediment Concentration	17.0	mg/L	5.0
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	HARD	Hardness as CaCO3	292	mg/l	
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	COD	COD	37	mg/L	
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	409	uS/cm	
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	TEMP_FLD	Temperature (Field) Celsius	26.51	Deg C	
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	PH_FLD	pH (Field)	7.08	S.U.	
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	DO_FLD	Dissolved Oxygen (field) mg/L	5.23	mg/l	
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	397	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	\$ICP	Aluminum	0.497	mg/L	0.348
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	\$ICP	Antimony	0.0000	mg/L	0.0678
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	\$ICP	Arsenic	0.0191	mg/L	0.0284
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	\$ICP	Barium	0.0279	mg/L	0.003
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	\$ICP	Beryllium	0.0000	mg/L	0.0003
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	\$ICP	Cadmium	0.0000	mg/L	0.0005
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	\$ICP	Calcium	45.8	mg/L	0.066
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	\$ICP	Chromium	0.0000	mg/L	0.0009
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	\$ICP	Cobalt	0.0000	mg/L	0.0011
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	\$ICP	Copper	0.000	mg/L	0.002
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	\$ICP	Iron	0.808	mg/L	0.018
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	\$ICP	Lead	0.0000	mg/L	0.0041
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	\$ICP	Magnesium	9.5600	mg/L	0.0333
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	\$ICP	Manganese	0.0715	mg/L	0.009
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	\$ICP	Nickel	0.0000	mg/L	0.0021
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	\$ICP	Selenium	0.0428	mg/L	0.0156
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	\$ICP	Silver	0.0000	mg/L	0.0011
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	\$ICP	Strontium	0.1490	mg/L	0.0005
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	\$ICP	Thallium	0.0182	mg/L	0.0100
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	\$ICP	Tin	0.000	mg/L	0.009
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	\$ICP	Vanadium	0.0000	mg/L	0.0006
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	\$ICP	Zinc	0.0150	mg/L	0.0058
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	\$ICP	Titanium	0.0000	mg/L	0.0022
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	PB_FU	Lead by Furnace	0.048	ug/L	0.5
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	AS_FU	Arsenic by Furnace	1.789	ug/L	1.0
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	CU_FU	Copper by Furnace	3.2	ug/L	1
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	NH3	Ammonia as N	0	mg/L	0.5
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	NO3NO2	Nitrate + Nitrite	3.01	mg/L	0.5
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	TKP	Total Kjeldahl Phosphorus	0.5667	mg/L	0.5
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	NO2	Nitrite as N	0.0209	mg/l	0.005
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	NO3	Nitrate as N (calculated)	2.9891	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04371	LM29	Little Miami Watershed	29	7/26/2012	09:00	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	MF_CF	Fecal Coliform, Membrane Filter	2100	CFU/100mL	
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	E-COLI	E.coli (Colilert)	461	MPN	
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	TDS	Total Dissolved Solids	140	mg/L	
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	SO4	Sulfate	28.5	mg/L	12.5
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	CL	Chloride	1.0	mg/L	1.00
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	TSS	Tot. Suspended Solids	6	mg/L	2
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	SSC	Suspended Sediment Concentration	14.0	mg/L	5.0
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	HARD	Hardness as CaCO3	242	mg/l	
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	COD	COD	5	mg/L	
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	310	uS/cm	
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	TEMP_FLD	Temperature (Field) Celsius	26.31	Deg C	
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	PH_FLD	pH (Field)	7.34	S.U.	
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	DO_FLD	Dissolved Oxygen (field) mg/L	5.77	mg/l	
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	302	uS/cm	
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	\$ICP	Aluminum	0.376	mg/L	0.348
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	\$ICP	Antimony	0.0000	mg/L	0.0678
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	\$ICP	Arsenic	0.0225	mg/L	0.0284
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	\$ICP	Barium	0.0270	mg/L	0.003
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	\$ICP	Beryllium	0.0000	mg/L	0.0003
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	\$ICP	Cadmium	0.0000	mg/L	0.0005
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	\$ICP	Calcium	38.3	mg/L	0.066
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	\$ICP	Chromium	0.0000	mg/L	0.0009
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	\$ICP	Cobalt	0.0000	mg/L	0.0011
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	\$ICP	Copper	0.000	mg/L	0.002
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	\$ICP	Iron	0.653	mg/L	0.018
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	\$ICP	Lead	0.0000	mg/L	0.0041
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	\$ICP	Magnesium	8.5900	mg/L	0.0333
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	\$ICP	Manganese	0.0746	mg/L	0.009
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	\$ICP	Nickel	0.0000	mg/L	0.0021
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	\$ICP	Selenium	0.0253	mg/L	0.0156
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	\$ICP	Silver	0.0000	mg/L	0.0011

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	\$ICP	Strontium	0.1160	mg/L	0.0005
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	\$ICP	Thallium	0.0000	mg/L	0.0100
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	\$ICP	Tin	0.000	mg/L	0.009
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	\$ICP	Vanadium	0.0000	mg/L	0.0006
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	\$ICP	Zinc	0.0064	mg/L	0.0058
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	\$ICP	Titanium	0.0000	mg/L	0.0022
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	AS_FU	Arsenic by Furnace	1.905	ug/L	1.0
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	CU_FU	Copper by Furnace	2.0	ug/L	1
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	NH3	Ammonia as N	0	mg/L	0.5
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	NO2	Nitrite as N	0.0105	mg/l	0.005
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04372	LM28	Little Miami Watershed	28	7/26/2012	09:15	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	MF_CF	Fecal Coliform, Membrane Filter	1467	CFU/100mL	
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	E-COLI	E.coli (Colilert)	461	MPN	
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	TDS	Total Dissolved Solids	170	mg/L	
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	SO4	Sulfate	25.9	mg/L	5.0
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	CL	Chloride	16.3	mg/L	1.00
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	TSS	Tot. Suspended Solids	6	mg/L	2
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	SSC	Suspended Sediment Concentration	9.0	mg/L	5.0
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	HARD	Hardness as CaCO3	236	mg/l	
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	COD	COD	31	mg/L	
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	298	uS/cm	
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	TEMP_FLD	Temperature (Field) Celsius	26.27	Deg C	
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	PH_FLD	pH (Field)	7.39	S.U.	
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	DO_FLD	Dissolved Oxygen (field) mg/L	6.16	mg/l	
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	291	uS/cm	
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	\$ICP	Aluminum	0.00	mg/L	0.348

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	\$ICP	Antimony	0.0000	mg/L	0.0678
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	\$ICP	Arsenic	0.0317	mg/L	0.0284
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	\$ICP	Barium	0.0268	mg/L	0.003
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	\$ICP	Beryllium	0.0000	mg/L	0.0003
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	\$ICP	Cadmium	0.0000	mg/L	0.0005
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	\$ICP	Calcium	37.5	mg/L	0.066
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	\$ICP	Chromium	0.0000	mg/L	0.0009
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	\$ICP	Cobalt	0.0000	mg/L	0.0011
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	\$ICP	Copper	0.000	mg/L	0.002
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	\$ICP	Iron	0.533	mg/L	0.018
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	\$ICP	Lead	0.0000	mg/L	0.0041
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	\$ICP	Magnesium	8.4100	mg/L	0.0333
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	\$ICP	Manganese	0.0761	mg/L	0.009
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	\$ICP	Nickel	0.0000	mg/L	0.0021
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	\$ICP	Selenium	0.0642	mg/L	0.0156
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	\$ICP	Silver	0.0000	mg/L	0.0011
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	\$ICP	Strontium	0.1120	mg/L	0.0005
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	\$ICP	Thallium	0.0000	mg/L	0.0100
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	\$ICP	Tin	0.000	mg/L	0.009
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	\$ICP	Vanadium	0.0000	mg/L	0.0006
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	\$ICP	Zinc	0.0064	mg/L	0.0058
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	\$ICP	Titanium	0.0000	mg/L	0.0022
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	PB_FU	Lead by Furnace	0.182	ug/L	0.5
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	AS_FU	Arsenic by Furnace	2.027	ug/L	1.0
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	CU_FU	Copper by Furnace	2.4	ug/L	1
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	NH3	Ammonia as N	0	mg/L	0.5
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	NO2	Nitrite as N	0.0079	mg/l	0.005
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04373	LM27	Little Miami Watershed	27	7/26/2012	09:40	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	1067	CFU/100mL	
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	E-COLI	E.coli (Colilert)	326	MPN	
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	TDS	Total Dissolved Solids	140	mg/L	
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	SO4	Sulfate	24.6	mg/L	12.5
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	CL	Chloride	14.9	mg/L	1.00
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	TSS	Tot. Suspended Solids	2	mg/L	2
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	SSC	Suspended Sediment Concentration	9.0	mg/L	5.0
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	HARD	Hardness as CaCO3	212	mg/l	
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	COD	COD	19	mg/L	
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	283	uS/cm	
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	26.08	Deg C	
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	PH_FLD	pH (Field)	7.40	S.U.	
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	6.45	mg/l	
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	277	uS/cm	
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	\$ICP	Antimony	0.0000	mg/L	0.0678
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	\$ICP	Arsenic	0.0162	mg/L	0.0284
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	\$ICP	Barium	0.0255	mg/L	0.003
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	\$ICP	Beryllium	0.0000	mg/L	0.0003
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	\$ICP	Cadmium	0.0000	mg/L	0.0005
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	\$ICP	Calcium	36.1	mg/L	0.066
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	\$ICP	Chromium	0.0000	mg/L	0.0009
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	\$ICP	Cobalt	0.0000	mg/L	0.0011
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	\$ICP	Copper	0.000	mg/L	0.002
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	\$ICP	Iron	0.341	mg/L	0.018
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	\$ICP	Lead	0.0090	mg/L	0.0041
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	\$ICP	Magnesium	8.4500	mg/L	0.0333
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	\$ICP	Manganese	0.0747	mg/L	0.009
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	\$ICP	Nickel	0.0000	mg/L	0.0021
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	\$ICP	Selenium	0.0273	mg/L	0.0156
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	\$ICP	Silver	0.0000	mg/L	0.0011
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	\$ICP	Strontium	0.1030	mg/L	0.0005



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	\$ICP	Thallium	0.0000	mg/L	0.0100
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	\$ICP	Tin	0.000	mg/L	0.009
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	\$ICP	Vanadium	0.0000	mg/L	0.0006
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	\$ICP	Zinc	0.0061	mg/L	0.0058
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	\$ICP	Titanium	0.0000	mg/L	0.0022
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	PB_FU	Lead by Furnace	0.001	ug/L	0.5
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	AS_FU	Arsenic by Furnace	2.204	ug/L	1.0
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	CU_FU	Copper by Furnace	1.6	ug/L	1
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	NO3NO2	Nitrate + Nitrite	0.3979	mg/L	0.5
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	NO2	Nitrite as N	0.0096	mg/l	0.005
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	NO3	Nitrate as N (calculated)	0.3883	mg/l	
AC04374	LM26	Little Miami Watershed	26	7/26/2012	10:00	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	MF_CF	Fecal Coliform, Membrane Filter	29	CFU/100mL	
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	E-COLI	E.coli (Colilert)	30	MPN	
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	TDS	Total Dissolved Solids	80	mg/L	
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	SO4	Sulfate	19.8	mg/L	5.0
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	CL	Chloride	14.2	mg/L	1.00
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	TSS	Tot. Suspended Solids	2	mg/L	2
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	HARD	Hardness as CaCO3	256	mg/l	
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	COD	COD	16	mg/L	
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	246	uS/cm	
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	TEMP_FLD	Temperature (Field) Celsius	22.72	Deg C	
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	PH_FLD	pH (Field)	7.33	S.U.	
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	DO_FLD	Dissolved Oxygen (field) mg/L	7.38	mg/l	
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	257	uS/cm	
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	\$ICP	Antimony	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	\$ICP	Arsenic	0.00	mg/L	0.012
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	\$ICP	Barium	0.0264	mg/L	0.003
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	\$ICP	Calcium	32.1	mg/L	0.066
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	\$ICP	Chromium	0.00	mg/L	0.006
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	\$ICP	Copper	0.00	mg/L	0.006
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	\$ICP	Iron	0.189	mg/L	0.018
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	\$ICP	Lead	0.0163	mg/L	0.006
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	\$ICP	Magnesium	8.00	mg/L	0.021
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	\$ICP	Manganese	0.0897	mg/L	0.009
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	\$ICP	Nickel	0.00	mg/L	0.003
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	\$ICP	Selenium	0.0693	mg/L	0.009
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	\$ICP	Silver	0.00	mg/L	0.003
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	\$ICP	Strontium	0.0910	mg/L	0.009
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	\$ICP	Thallium	0.00	mg/L	0.012
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	\$ICP	Tin	0.00	mg/L	0.006
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	\$ICP	Zinc	0.00762	mg/L	0.006
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	AS_FU	Arsenic by Furnace	1.866	ug/L	1.0
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	CU_FU	Copper by Furnace	1.5	ug/L	1
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	NH3	Ammonia as N	0	mg/L	0.5
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	NO2	Nitrite as N	0.0175	mg/l	0.005
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04375	LM25	Little Miami Watershed	25	7/26/2012	10:40	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	MF_CF	Fecal Coliform, Membrane Filter	733	CFU/100mL	
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	E-COLI	E.coli (Colilert)	1553	MPN	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	TDS	Total Dissolved Solids	190	mg/L	
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	SO4	Sulfate	44.2	mg/L	12.5
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	CL	Chloride	27.8	mg/L	1.00
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	TSS	Tot. Suspended Solids	57	mg/L	2
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	SSC	Suspended Sediment Concentration	67.0	mg/L	5.0
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	HARD	Hardness as CaCO3	166	mg/l	
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	COD	COD	34	mg/L	
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	403	uS/cm	
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	TEMP_FLD	Temperature (Field) Celsius	26.25	Deg C	
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	PH_FLD	pH (Field)	7.35	S.U.	
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	DO_FLD	Dissolved Oxygen (field) mg/L	6.43	mg/l	
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	394	uS/cm	
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	\$ICP	Aluminum	1.81	mg/L	0.348
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	\$ICP	Antimony	0.0141	mg/L	0.006
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	\$ICP	Arsenic	0.0343	mg/L	0.012
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	\$ICP	Barium	0.0411	mg/L	0.003
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	\$ICP	Beryllium	0.00	mg/L	0.009
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	\$ICP	Cadmium	0.00	mg/L	0.012
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	\$ICP	Calcium	50.5	mg/L	0.066
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	\$ICP	Chromium	0.00	mg/L	0.006
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	\$ICP	Cobalt	0.00	mg/L	0.006
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	\$ICP	Copper	0.00	mg/L	0.006
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	\$ICP	Iron	3.04	mg/L	0.018
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	\$ICP	Lead	0.0180	mg/L	0.006
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	\$ICP	Magnesium	10.5	mg/L	0.021
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	\$ICP	Manganese	0.180	mg/L	0.009
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	\$ICP	Nickel	0.00467	mg/L	0.003
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	\$ICP	Selenium	0.102	mg/L	0.009
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	\$ICP	Silver	0.00	mg/L	0.003
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	\$ICP	Strontium	0.169	mg/L	0.009
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	\$ICP	Thallium	0.0260	mg/L	0.012
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	\$ICP	Tin	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	\$ICP	Vanadium	0.00	mg/L	0.018
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	\$ICP	Zinc	0.0317	mg/L	0.006
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	PB_FU	Lead by Furnace	3.291	ug/L	0.5
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	AS_FU	Arsenic by Furnace	2.428	ug/L	1.0
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	CU_FU	Copper by Furnace	4.2	ug/L	1
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	NH3	Ammonia as N	0	mg/L	0.5
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	NO3NO2	Nitrate + Nitrite	2.07	mg/L	0.5
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	TKN	Total Kjeldahl Nitrogen	0.4734	mg/L	0.5
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	TKP	Total Kjeldahl Phosphorus	0.4913	mg/L	0.5
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	NO2	Nitrite as N	0.0183	mg/l	0.005
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	NO3	Nitrate as N (calculated)	2.0517	mg/l	
AC04463	LM32	Little Miami Watershed	32	7/27/2012	09:35	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	MF_CF	Fecal Coliform, Membrane Filter	1367	CFU/100mL	
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	E-COLI	E.coli (Colilert)	1414	MPN	
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	TDS	Total Dissolved Solids	170	mg/L	
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	SO4	Sulfate	44.0	mg/L	12.5
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	CL	Chloride	29.3	mg/L	1.00
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	TSS	Tot. Suspended Solids	64	mg/L	2
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	SSC	Suspended Sediment Concentration	82.0	mg/L	5.0
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	HARD	Hardness as CaCO3	168	mg/l	
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	COD	COD	36	mg/L	
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	412	uS/cm	
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	TEMP_FLD	Temperature (Field) Celsius	26.30	Deg C	
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	PH_FLD	pH (Field)	7.20	S.U.	
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	DO_FLD	Dissolved Oxygen (field) mg/L	6.54	mg/l	
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	402	uS/cm	
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	\$ICP	Aluminum	2.84	mg/L	0.348
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	\$ICP	Antimony	0.00	mg/L	0.006
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	\$ICP	Barium	0.0473	mg/L	0.003
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	\$ICP	Beryllium	0.00	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	\$ICP	Calcium	52.5	mg/L	0.066
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	\$ICP	Chromium	0.00	mg/L	0.006
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	\$ICP	Copper	0.00	mg/L	0.006
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	\$ICP	Iron	4.88	mg/L	0.018
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	\$ICP	Lead	0.0137	mg/L	0.006
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	\$ICP	Magnesium	11.1	mg/L	0.021
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	\$ICP	Manganese	0.259	mg/L	0.009
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	\$ICP	Nickel	0.00531	mg/L	0.003
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	\$ICP	Selenium	0.0849	mg/L	0.009
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	\$ICP	Silver	0.00	mg/L	0.003
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	\$ICP	Strontium	0.177	mg/L	0.009
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	\$ICP	Thallium	0.00	mg/L	0.012
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	\$ICP	Tin	0.00	mg/L	0.006
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	\$ICP	Zinc	0.0321	mg/L	0.006
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	PB_FU	Lead by Furnace	4.707	ug/L	0.5
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	AS_FU	Arsenic by Furnace	3.135	ug/L	1.0
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	CU_FU	Copper by Furnace	4.6	ug/L	1
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	NH3	Ammonia as N	0	mg/L	0.5
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	NO3NO2	Nitrate + Nitrite	1.79	mg/L	0.5
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	TKP	Total Kjeldahl Phosphorus	0.3372	mg/L	0.5
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	NO2	Nitrite as N	0.0201	mg/l	0.005
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	NO3	Nitrate as N (calculated)	1.7699	mg/l	
AC04464	LM34	Little Miami Watershed	34	7/27/2012	09:00	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	E-COLI	E.coli (Colilert)	2420	MPN	
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	TDS	Total Dissolved Solids	210	mg/L	
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	SO4	Sulfate	42.2	mg/L	12.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	CL	Chloride	48.2	mg/L	1.00
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	TSS	Tot. Suspended Solids	58	mg/L	2
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	SSC	Suspended Sediment Concentration	143	mg/L	5.0
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	HARD	Hardness as CaCO3	170	mg/l	
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	COD	COD	39	mg/L	
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	477	uS/cm	
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	TEMP_FLD	Temperature (Field) Celsius	26.10	Deg C	
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	PH_FLD	pH (Field)	7.75	S.U.	
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	DO_FLD	Dissolved Oxygen (field) mg/L	7.01	mg/l	
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	467	uS/cm	
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	\$ICP	Aluminum	3.84	mg/L	0.348
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	\$ICP	Antimony	0.00	mg/L	0.006
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	\$ICP	Arsenic	0.00	mg/L	0.012
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	\$ICP	Barium	0.0613	mg/L	0.003
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	\$ICP	Calcium	47.6	mg/L	0.066
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	\$ICP	Chromium	0.00	mg/L	0.006
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	\$ICP	Copper	0.00902	mg/L	0.006
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	\$ICP	Iron	5.73	mg/L	0.018
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	\$ICP	Lead	0.0110	mg/L	0.006
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	\$ICP	Magnesium	14.7	mg/L	0.021
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	\$ICP	Manganese	0.202	mg/L	0.009
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	\$ICP	Nickel	0.00660	mg/L	0.003
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	\$ICP	Selenium	0.0413	mg/L	0.009
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	\$ICP	Silver	0.00	mg/L	0.003
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	\$ICP	Strontium	0.197	mg/L	0.009
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	\$ICP	Thallium	0.00	mg/L	0.012
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	\$ICP	Tin	0.00	mg/L	0.006
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	\$ICP	Zinc	0.0460	mg/L	0.006
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	PB_FU	Lead by Furnace	5.967	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	AS_FU	Arsenic by Furnace	2.970	ug/L	1.0
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	CU_FU	Copper by Furnace	8.4	ug/L	1
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	NH3	Ammonia as N	9.903	mg/L	0.5
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	NO3NO2	Nitrate + Nitrite	10.1	mg/L	0.5
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	TKN	Total Kjeldahl Nitrogen	0.7862	mg/L	0.5
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	TKP	Total Kjeldahl Phosphorus	0.5059	mg/L	0.5
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	NO2	Nitrite as N	0.0196	mg/l	0.005
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	NO3	Nitrate as N (calculated)	10.0804	mg/l	
AC04465	LM09	Little Miami Watershed	9	7/27/2012	09:15	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	E-COLI	E.coli (Colilert)	2420	MPN	
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	TDS	Total Dissolved Solids	250	mg/L	
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	SO4	Sulfate	43.2	mg/L	12.5
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	CL	Chloride	49.4	mg/L	1.00
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	TSS	Tot. Suspended Solids	78	mg/L	2
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	SSC	Suspended Sediment Concentration	144	mg/L	5.0
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	HARD	Hardness as CaCO3	180	mg/l	
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	COD	COD	43	mg/L	
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	478	uS/cm	
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	TEMP_FLD	Temperature (Field) Celsius	26.13	Deg C	
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	PH_FLD	pH (Field)	7.42	S.U.	
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	DO_FLD	Dissolved Oxygen (field) mg/L	6.90	mg/l	
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	468	uS/cm	
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	\$ICP	Aluminum	3.01	mg/L	0.348
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	\$ICP	Antimony	0.00	mg/L	0.006
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	\$ICP	Arsenic	0.0278	mg/L	0.012
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	\$ICP	Barium	0.0553	mg/L	0.003
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	\$ICP	Calcium	49.9	mg/L	0.066
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	\$ICP	Chromium	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	\$ICP	Copper	0.00958	mg/L	0.006
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	\$ICP	Iron	4.74	mg/L	0.018
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	\$ICP	Lead	0.00961	mg/L	0.006
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	\$ICP	Magnesium	13.6	mg/L	0.021
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	\$ICP	Manganese	0.189	mg/L	0.009
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	\$ICP	Nickel	0.00525	mg/L	0.003
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	\$ICP	Selenium	0.0770	mg/L	0.009
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	\$ICP	Silver	0.00	mg/L	0.003
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	\$ICP	Strontium	0.196	mg/L	0.009
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	\$ICP	Thallium	0.0148	mg/L	0.012
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	\$ICP	Tin	0.00	mg/L	0.006
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	\$ICP	Zinc	0.0358	mg/L	0.006
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	PB_FU	Lead by Furnace	5.587	ug/L	0.5
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	AS_FU	Arsenic by Furnace	2.892	ug/L	1.0
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	CU_FU	Copper by Furnace	7.7	ug/L	1
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	NH3	Ammonia as N	0	mg/L	0.5
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	NO3NO2	Nitrate + Nitrite	1.33	mg/L	0.5
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	TKN	Total Kjeldahl Nitrogen	0.8039	mg/L	0.5
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	TKP	Total Kjeldahl Phosphorus	0.5329	mg/L	0.5
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	NO2	Nitrite as N	0.0206	mg/l	0.005
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	NO3	Nitrate as N (calculated)	1.3094	mg/l	
AC04466	LM10	Little Miami Watershed	10 (3261-10)	7/27/2012	09:40	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	1067	CFU/100mL	
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	E-COLI	E.coli (Colilert)	1986	MPN	
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	TDS	Total Dissolved Solids	170	mg/L	
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	SO4	Sulfate	45.2	mg/L	12.5
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	CL	Chloride	31.3	mg/L	1.00
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	TSS	Tot. Suspended Solids	32	mg/L	2
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	SSC	Suspended Sediment Concentration	56.0	mg/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	HARD	Hardness as CaCO3	180	mg/l	
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	COD	COD	33	mg/L	
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	422	uS/cm	
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	26.20	Deg C	
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	PH_FLD	pH (Field)	7.46	S.U.	
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	5.48	mg/l	
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	412	uS/cm	
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	\$ICP	Aluminum	1.33	mg/L	0.348
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	\$ICP	Antimony	0.00	mg/L	0.006
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	\$ICP	Arsenic	0.0131	mg/L	0.012
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	\$ICP	Barium	0.0383	mg/L	0.003
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	\$ICP	Calcium	50.4	mg/L	0.066
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	\$ICP	Chromium	0.00	mg/L	0.006
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	\$ICP	Copper	0.00	mg/L	0.006
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	\$ICP	Iron	2.18	mg/L	0.018
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	\$ICP	Lead	0.0136	mg/L	0.006
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	\$ICP	Magnesium	10.4	mg/L	0.021
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	\$ICP	Manganese	0.127	mg/L	0.009
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	\$ICP	Nickel	0.00360	mg/L	0.003
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	\$ICP	Selenium	0.0392	mg/L	0.009
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	\$ICP	Silver	0.00	mg/L	0.003
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	\$ICP	Strontium	0.178	mg/L	0.009
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	\$ICP	Thallium	0.0168	mg/L	0.012
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	\$ICP	Tin	0.00	mg/L	0.006
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	\$ICP	Zinc	0.0179	mg/L	0.006
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	PB_FU	Lead by Furnace	1.912	ug/L	0.5
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	AS_FU	Arsenic by Furnace	1.916	ug/L	1.0
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	CU_FU	Copper by Furnace	3.6	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	NO3NO2	Nitrate + Nitrite	1.85	mg/L	0.5
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	TKN	Total Kjeldahl Nitrogen	0.3946	mg/L	0.5
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	TKP	Total Kjeldahl Phosphorus	0.4697	mg/L	0.5
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	NO2	Nitrite as N	0.0187	mg/l	0.005
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	NO3	Nitrate as N (calculated)	1.8313	mg/l	
AC04467	LM36	Little Miami Watershed	36	7/27/2012	10:00	CHLOROPHYLL	Chlorophyll	3.74	mg/m3	1.00
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	1167	CFU/100mL	
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	E-COLI	E.coli (Colilert)	1414	MPN	
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	TDS	Total Dissolved Solids	210	mg/L	
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	SO4	Sulfate	45.2	mg/L	12.5
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	CL	Chloride	28.2	mg/L	1.00
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	TSS	Tot. Suspended Solids	40	mg/L	2
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	SSC	Suspended Sediment Concentration	48.0	mg/L	5.0
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	HARD	Hardness as CaCO3	170	mg/l	
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	COD	COD	31	mg/L	
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	414	uS/cm	
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	26.65	Deg C	
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	PH_FLD	pH (Field)	7.43	S.U.	
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	6.83	mg/l	
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	401	uS/cm	
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	\$ICP	Aluminum	1.38	mg/L	0.348
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	\$ICP	Antimony	0.00	mg/L	0.006
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	\$ICP	Arsenic	0.0275	mg/L	0.012
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	\$ICP	Barium	0.0376	mg/L	0.003
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	\$ICP	Calcium	50.2	mg/L	0.066
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	\$ICP	Chromium	0.00	mg/L	0.006
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	\$ICP	Copper	0.00	mg/L	0.006
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	\$ICP	Iron	2.25	mg/L	0.018

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	\$ICP	Lead	0.0143	mg/L	0.006
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	\$ICP	Magnesium	10.4	mg/L	0.021
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	\$ICP	Manganese	0.139	mg/L	0.009
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	\$ICP	Nickel	0.00372	mg/L	0.003
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	\$ICP	Selenium	0.0475	mg/L	0.009
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	\$ICP	Silver	0.00	mg/L	0.003
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	\$ICP	Strontium	0.171	mg/L	0.009
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	\$ICP	Thallium	0.00	mg/L	0.012
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	\$ICP	Tin	0.00	mg/L	0.006
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	\$ICP	Zinc	0.0203	mg/L	0.006
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	PB_FU	Lead by Furnace	1.673	ug/L	0.5
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	AS_FU	Arsenic by Furnace	1.863	ug/L	1.0
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	CU_FU	Copper by Furnace	3.8	ug/L	1
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	NO3NO2	Nitrate + Nitrite	1.81	mg/L	0.5
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	TKN	Total Kjeldahl Nitrogen	0.3394	mg/L	0.5
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	TKP	Total Kjeldahl Phosphorus	0.4639	mg/L	0.5
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	NO2	Nitrite as N	0.0215	mg/l	0.005
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	NO3	Nitrate as N (calculated)	1.7885	mg/l	
AC04468	LM35	Little Miami Watershed	35	7/27/2012	10:30	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	2400	CFU/100mL	
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	E-COLI	E.coli (Colilert)	2420	MPN	
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	TDS	Total Dissolved Solids	250	mg/L	
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	SO4	Sulfate	46.5	mg/L	12.5
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	CL	Chloride	46.6	mg/L	1.00
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	TSS	Tot. Suspended Solids	82	mg/L	2
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	SSC	Suspended Sediment Concentration	8.2	mg/L	5.0
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	HARD	Hardness as CaCO3	168	mg/l	
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	COD	COD	41	mg/L	
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	475	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	26.50	Deg C	
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	PH_FLD	pH (Field)	7.46	S.U.	
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	6.49	mg/l	
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	462	uS/cm	
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	\$ICP	Aluminum	2.66	mg/L	0.348
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	\$ICP	Antimony	0.00	mg/L	0.006
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	\$ICP	Arsenic	0.0177	mg/L	0.012
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	\$ICP	Barium	0.0529	mg/L	0.003
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	\$ICP	Calcium	49.4	mg/L	0.066
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	\$ICP	Chromium	0.00	mg/L	0.006
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	\$ICP	Copper	0.00649	mg/L	0.006
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	\$ICP	Iron	4.11	mg/L	0.018
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	\$ICP	Lead	0.0156	mg/L	0.006
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	\$ICP	Magnesium	13.8	mg/L	0.021
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	\$ICP	Manganese	0.156	mg/L	0.009
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	\$ICP	Nickel	0.00499	mg/L	0.003
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	\$ICP	Selenium	0.0833	mg/L	0.009
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	\$ICP	Silver	0.00	mg/L	0.003
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	\$ICP	Strontium	0.196	mg/L	0.009
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	\$ICP	Thallium	0.00	mg/L	0.012
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	\$ICP	Tin	0.00	mg/L	0.006
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	\$ICP	Zinc	0.0261	mg/L	0.006
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	PB_FU	Lead by Furnace	3.592	ug/L	0.5
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	AS_FU	Arsenic by Furnace	2.563	ug/L	1.0
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	CU_FU	Copper by Furnace	5.4	ug/L	1
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	NO3NO2	Nitrate + Nitrite	1.30	mg/L	0.5
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	TKP	Total Kjeldahl Phosphorus	0.3869	mg/L	0.5
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	NO2	Nitrite as N	0.0200	mg/l	0.005
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	NO3	Nitrate as N (calculated)	1.2800	mg/l	
AC04469	LM11	Little Miami Watershed	11	7/27/2012	11:00	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC04538	LM01	Little Miami Watershed	1	7/30/2012	11:05	MF_CF	Fecal Coliform, Membrane Filter	143	CFU/100mL	
AC04538	LM01	Little Miami Watershed	1	7/30/2012	11:05	E-COLI	E.coli (Colilert)	111	MPN	
AC04538	LM01	Little Miami Watershed	1	7/30/2012	11:05	TDS	Total Dissolved Solids	560	mg/L	
AC04538	LM01	Little Miami Watershed	1	7/30/2012	11:05	BOD	Biochemical Oxygen Demand	5	mg/L	2
AC04538	LM01	Little Miami Watershed	1	7/30/2012	11:05	SO4	Sulfate	62.2	mg/L	12.5
AC04538	LM01	Little Miami Watershed	1	7/30/2012	11:05	CL	Chloride	113	mg/L	2.0
AC04538	LM01	Little Miami Watershed	1	7/30/2012	11:05	TSS	Tot. Suspended Solids	4	mg/L	2
AC04538	LM01	Little Miami Watershed	1	7/30/2012	11:05	SSC	Suspended Sediment Concentration	15.0	mg/L	5.0
AC04538	LM01	Little Miami Watershed	1	7/30/2012	11:05	HARD	Hardness as CaCO3	240	mg/l	
AC04538	LM01	Little Miami Watershed	1	7/30/2012	11:05	COD	COD	26	mg/L	
AC04538	LM01	Little Miami Watershed	1	7/30/2012	11:05	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	806	uS/cm	
AC04538	LM01	Little Miami Watershed	1	7/30/2012	11:05	TEMP_FLD	Temperature (Field) Celsius	26.32	Deg C	
AC04538	LM01	Little Miami Watershed	1	7/30/2012	11:05	PH_FLD	pH (Field)	8.42	S.U.	
AC04538	LM01	Little Miami Watershed	1	7/30/2012	11:05	DO_FLD	Dissolved Oxygen (field) mg/L	13.52	mg/l	
AC04538	LM01	Little Miami Watershed	1	7/30/2012	11:05	CONDUCTIVITY	Specific Conductivity (uS/cm)	786	uS/cm	
AC04538	LM01	Little Miami Watershed	1	7/30/2012	11:05	NH3	Ammonia as N	0	mg/L	0.5
AC04538	LM01	Little Miami Watershed	1	7/30/2012	11:05	NO3NO2	Nitrate + Nitrite	1.67	mg/L	0.5
AC04538	LM01	Little Miami Watershed	1	7/30/2012	11:05	TKN	Total Kjeldahl Nitrogen	0.7780	mg/L	0.5
AC04538	LM01	Little Miami Watershed	1	7/30/2012	11:05	TKP	Total Kjeldahl Phosphorus	0.3291	mg/L	0.5
AC04538	LM01	Little Miami Watershed	1	7/30/2012	11:05	NO2	Nitrite as N	0.0380	mg/l	0.005
AC04538	LM01	Little Miami Watershed	1	7/30/2012	11:05	NO3	Nitrate as N (calculated)	1.6320	mg/l	
AC04538	LM01	Little Miami Watershed	1	7/30/2012	11:05	CHLOROPHYLL	Chlorophyll	107	mg/m3	1.00
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	MF_CF	Fecal Coliform, Membrane Filter	638	CFU/100mL	
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	E-COLI	E.coli (Colilert)	649	MPN	
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	TDS	Total Dissolved Solids	510	mg/L	
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	SO4	Sulfate	114	mg/L	62.5
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	CL	Chloride	128	mg/L	4.0
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	TSS	Tot. Suspended Solids	4	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	SSC	Suspended Sediment Concentration	5.0	mg/L	5.0
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	HARD	Hardness as CaCO3	320	mg/l	
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	COD	COD	8	mg/L	
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	877	uS/cm	
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	TEMP_FLD	Temperature (Field) Celsius	21.52	Deg C	
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	PH_FLD	pH (Field)	7.89	S.U.	
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	DO_FLD	Dissolved Oxygen (field) mg/L	9.31	mg/l	
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	939	uS/cm	
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	\$ICP	Antimony	0.00802	mg/L	0.006
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	\$ICP	Arsenic	0.0480	mg/L	0.012
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	\$ICP	Barium	0.0612	mg/L	0.003
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	\$ICP	Calcium	88.7	mg/L	0.066
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	\$ICP	Chromium	0.00	mg/L	0.006
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	\$ICP	Copper	0.0104	mg/L	0.006
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	\$ICP	Iron	0.312	mg/L	0.018
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	\$ICP	Lead	0.0192	mg/L	0.006
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	\$ICP	Magnesium	22.4	mg/L	0.021
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	\$ICP	Manganese	0.0376	mg/L	0.009
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	\$ICP	Nickel	0.00464	mg/L	0.003
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	\$ICP	Selenium	0.0929	mg/L	0.009
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	\$ICP	Silver	0.00	mg/L	0.003
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	\$ICP	Strontium	0.360	mg/L	0.009
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	\$ICP	Thallium	0.00	mg/L	0.012
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	\$ICP	Tin	0.00	mg/L	0.006
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	\$ICP	Zinc	0.0138	mg/L	0.006
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	AS_FU	Arsenic by Furnace	1.602	ug/L	1.0
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	CD_FU	Cadmium by Furnace	AA	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	CU_FU	Copper by Furnace	3.3	ug/L	1
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	NH3	Ammonia as N	0	mg/L	0.5
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	TKN	Total Kjeldahl Nitrogen	0.0666	mg/L	0.5
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	TKP	Total Kjeldahl Phosphorus	0.2874	mg/L	0.5
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	NO2	Nitrite as N	0.0076	mg/l	0.005
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04539	LM39	Little Miami Watershed	39	7/30/2012	11:40	CHLOROPHYLL	Chlorophyll	3.74	mg/m3	1.00
AC04540	LM03	Little Miami Watershed	3	7/30/2012	12:00	MF_CF	Fecal Coliform, Membrane Filter	320	CFU/100mL	
AC04540	LM03	Little Miami Watershed	3	7/30/2012	12:00	E-COLI	E.coli (Colilert)	131	MPN	
AC04540	LM03	Little Miami Watershed	3	7/30/2012	12:00	TDS	Total Dissolved Solids	430	mg/L	
AC04540	LM03	Little Miami Watershed	3	7/30/2012	12:00	BOD	Biochemical Oxygen Demand	5	mg/L	2
AC04540	LM03	Little Miami Watershed	3	7/30/2012	12:00	SO4	Sulfate	55.0	mg/L	12.5
AC04540	LM03	Little Miami Watershed	3	7/30/2012	12:00	CL	Chloride	77.0	mg/L	1.00
AC04540	LM03	Little Miami Watershed	3	7/30/2012	12:00	TSS	Tot. Suspended Solids	2	mg/L	2
AC04540	LM03	Little Miami Watershed	3	7/30/2012	12:00	SSC	Suspended Sediment Concentration	16.0	mg/L	5.0
AC04540	LM03	Little Miami Watershed	3	7/30/2012	12:00	HARD	Hardness as CaCO3	232	mg/l	
AC04540	LM03	Little Miami Watershed	3	7/30/2012	12:00	COD	COD	17	mg/L	
AC04540	LM03	Little Miami Watershed	3	7/30/2012	12:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	658	uS/cm	
AC04540	LM03	Little Miami Watershed	3	7/30/2012	12:00	TEMP_FLD	Temperature (Field) Celsius	26.90	Deg C	
AC04540	LM03	Little Miami Watershed	3	7/30/2012	12:00	PH_FLD	pH (Field)	8.65	S.U.	
AC04540	LM03	Little Miami Watershed	3	7/30/2012	12:00	DO_FLD	Dissolved Oxygen (field) mg/L	15.13	mg/l	
AC04540	LM03	Little Miami Watershed	3	7/30/2012	12:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	655	uS/cm	
AC04540	LM03	Little Miami Watershed	3	7/30/2012	12:00	NH3	Ammonia as N	0	mg/L	0.5
AC04540	LM03	Little Miami Watershed	3	7/30/2012	12:00	NO3NO2	Nitrate + Nitrite	0.564	mg/L	0.5
AC04540	LM03	Little Miami Watershed	3	7/30/2012	12:00	TKN	Total Kjeldahl Nitrogen	1.3899	mg/L	0.5
AC04540	LM03	Little Miami Watershed	3	7/30/2012	12:00	TKP	Total Kjeldahl Phosphorus	0.2885	mg/L	0.5
AC04540	LM03	Little Miami Watershed	3	7/30/2012	12:00	NO2	Nitrite as N	0.0235	mg/l	0.005
AC04540	LM03	Little Miami Watershed	3	7/30/2012	12:00	NO3	Nitrate as N (calculated)	0.5405	mg/l	
AC04540	LM03	Little Miami Watershed	3	7/30/2012	12:00	CHLOROPHYLL	Chlorophyll	108	mg/m3	1.00
AC04541	LM04	Little Miami Watershed	4	7/30/2012	12:20	MF_CF	Fecal Coliform, Membrane Filter	21	CFU/100mL	
AC04541	LM04	Little Miami Watershed	4	7/30/2012	12:20	E-COLI	E.coli (Colilert)	12	MPN	
AC04541	LM04	Little Miami Watershed	4	7/30/2012	12:20	TDS	Total Dissolved Solids	700	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04541	LM04	Little Miami Watershed	4	7/30/2012	12:20	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC04541	LM04	Little Miami Watershed	4	7/30/2012	12:20	SO4	Sulfate	99.8	mg/L	12.5
AC04541	LM04	Little Miami Watershed	4	7/30/2012	12:20	CL	Chloride	299	mg/L	5.0
AC04541	LM04	Little Miami Watershed	4	7/30/2012	12:20	TSS	Tot. Suspended Solids	2	mg/L	2
AC04541	LM04	Little Miami Watershed	4	7/30/2012	12:20	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04541	LM04	Little Miami Watershed	4	7/30/2012	12:20	HARD	Hardness as CaCO3	282	mg/l	
AC04541	LM04	Little Miami Watershed	4	7/30/2012	12:20	COD	COD	12	mg/L	
AC04541	LM04	Little Miami Watershed	4	7/30/2012	12:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1103	uS/cm	
AC04541	LM04	Little Miami Watershed	4	7/30/2012	12:20	TEMP_FLD	Temperature (Field) Celsius	22.94	Deg C	
AC04541	LM04	Little Miami Watershed	4	7/30/2012	12:20	PH_FLD	pH (Field)	7.21	S.U.	
AC04541	LM04	Little Miami Watershed	4	7/30/2012	12:20	DO_FLD	Dissolved Oxygen (field) mg/L	8.57	mg/l	
AC04541	LM04	Little Miami Watershed	4	7/30/2012	12:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	1148	uS/cm	
AC04541	LM04	Little Miami Watershed	4	7/30/2012	12:20	NH3	Ammonia as N	0	mg/L	0.5
AC04541	LM04	Little Miami Watershed	4	7/30/2012	12:20	NO3NO2	Nitrate + Nitrite	10.731	mg/L	0.5
AC04541	LM04	Little Miami Watershed	4	7/30/2012	12:20	TKN	Total Kjeldahl Nitrogen	1.4188	mg/L	0.5
AC04541	LM04	Little Miami Watershed	4	7/30/2012	12:20	TKP	Total Kjeldahl Phosphorus	2.1912	mg/L	0.5
AC04541	LM04	Little Miami Watershed	4	7/30/2012	12:20	NO2	Nitrite as N	0.0563	mg/l	0.005
AC04541	LM04	Little Miami Watershed	4	7/30/2012	12:20	NO3	Nitrate as N (calculated)	10.6747	mg/l	
AC04541	LM04	Little Miami Watershed	4	7/30/2012	12:20	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	MF_CF	Fecal Coliform, Membrane Filter	93	CFU/100mL	
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	E-COLI	E.coli (Colilert)	91	MPN	
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	TDS	Total Dissolved Solids	500	mg/L	
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	SO4	Sulfate	68.8	mg/L	12.5
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	CL	Chloride	90.8	mg/L	1.00
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	TSS	Tot. Suspended Solids	8	mg/L	2
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	HARD	Hardness as CaCO3	262	mg/l	
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	COD	COD	5	mg/L	
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	732	uS/cm	
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	TEMP_FLD	Temperature (Field) Celsius	24.56	Deg C	
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	PH_FLD	pH (Field)	8.05	S.U.	
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	DO_FLD	Dissolved Oxygen (field) mg/L	11.38	mg/l	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	738	uS/cm	
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	\$ICP	Antimony	0.00	mg/L	0.006
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	\$ICP	Arsenic	0.0677	mg/L	0.012
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	\$ICP	Barium	0.0463	mg/L	0.003
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	\$ICP	Calcium	71.0	mg/L	0.066
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	\$ICP	Chromium	0.00	mg/L	0.006
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	\$ICP	Copper	0.00896	mg/L	0.006
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	\$ICP	Iron	0.0258	mg/L	0.018
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	\$ICP	Lead	0.0123	mg/L	0.006
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	\$ICP	Magnesium	17.2	mg/L	0.021
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	\$ICP	Manganese	0.00	mg/L	0.009
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	\$ICP	Nickel	0.00408	mg/L	0.003
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	\$ICP	Selenium	0.0810	mg/L	0.009
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	\$ICP	Silver	0.00	mg/L	0.003
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	\$ICP	Strontium	0.275	mg/L	0.009
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	\$ICP	Thallium	0.0549	mg/L	0.012
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	\$ICP	Tin	0.00	mg/L	0.006
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	\$ICP	Zinc	0.0125	mg/L	0.006
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	AS_FU	Arsenic by Furnace	1.527	ug/L	1.0
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	CU_FU	Copper by Furnace	2.5	ug/L	1
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	NH3	Ammonia as N	0	mg/L	0.5
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	TKN	Total Kjeldahl Nitrogen	0.3957	mg/L	0.5
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	TKP	Total Kjeldahl Phosphorus	0.2579	mg/L	0.5
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	NO2	Nitrite as N	0.0061	mg/l	0.005
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	NO3	Nitrate as N (calculated)	AW	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04542	LM40	Little Miami Watershed	40	7/30/2012	12:50	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04543	LM14	Little Miami Watershed	14	7/30/2012	13:20	MF_CF	Fecal Coliform, Membrane Filter	210	CFU/100mL	
AC04543	LM14	Little Miami Watershed	14	7/30/2012	13:20	E-COLI	E.coli (Colilert)	179	MPN	
AC04543	LM14	Little Miami Watershed	14	7/30/2012	13:20	TDS	Total Dissolved Solids	280	mg/L	
AC04543	LM14	Little Miami Watershed	14	7/30/2012	13:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04543	LM14	Little Miami Watershed	14	7/30/2012	13:20	SO4	Sulfate	49.2	mg/L	12.5
AC04543	LM14	Little Miami Watershed	14	7/30/2012	13:20	CL	Chloride	57.3	mg/L	1.00
AC04543	LM14	Little Miami Watershed	14	7/30/2012	13:20	TSS	Tot. Suspended Solids	16	mg/L	2
AC04543	LM14	Little Miami Watershed	14	7/30/2012	13:20	SSC	Suspended Sediment Concentration	18.0	mg/L	5.0
AC04543	LM14	Little Miami Watershed	14	7/30/2012	13:20	HARD	Hardness as CaCO3	200	mg/l	
AC04543	LM14	Little Miami Watershed	14	7/30/2012	13:20	COD	COD	14	mg/L	
AC04543	LM14	Little Miami Watershed	14	7/30/2012	13:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	556	uS/cm	
AC04543	LM14	Little Miami Watershed	14	7/30/2012	13:20	TEMP_FLD	Temperature (Field) Celsius	27.43	Deg C	
AC04543	LM14	Little Miami Watershed	14	7/30/2012	13:20	PH_FLD	pH (Field)	8.21	S.U.	
AC04543	LM14	Little Miami Watershed	14	7/30/2012	13:20	DO_FLD	Dissolved Oxygen (field) mg/L	9.96	mg/l	
AC04543	LM14	Little Miami Watershed	14	7/30/2012	13:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	532	uS/cm	
AC04543	LM14	Little Miami Watershed	14	7/30/2012	13:20	NH3	Ammonia as N	0	mg/L	0.5
AC04543	LM14	Little Miami Watershed	14	7/30/2012	13:20	NO3NO2	Nitrate + Nitrite	0.933	mg/L	0.5
AC04543	LM14	Little Miami Watershed	14	7/30/2012	13:20	TKN	Total Kjeldahl Nitrogen	1.0340	mg/L	0.5
AC04543	LM14	Little Miami Watershed	14	7/30/2012	13:20	TKP	Total Kjeldahl Phosphorus	0.3517	mg/L	0.5
AC04543	LM14	Little Miami Watershed	14	7/30/2012	13:20	NO2	Nitrite as N	0.0150	mg/l	0.005
AC04543	LM14	Little Miami Watershed	14	7/30/2012	13:20	NO3	Nitrate as N (calculated)	0.9180	mg/l	
AC04543	LM14	Little Miami Watershed	14	7/30/2012	13:20	CHLOROPHYLL	Chlorophyll	28.8	mg/m3	1.00
AC04544	LM15	Little Miami Watershed	15	7/30/2012	13:30	MF_CF	Fecal Coliform, Membrane Filter	210	CFU/100mL	
AC04544	LM15	Little Miami Watershed	15	7/30/2012	13:30	E-COLI	E.coli (Colilert)	179	MPN	
AC04544	LM15	Little Miami Watershed	15	7/30/2012	13:30	TDS	Total Dissolved Solids	410	mg/L	
AC04544	LM15	Little Miami Watershed	15	7/30/2012	13:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04544	LM15	Little Miami Watershed	15	7/30/2012	13:30	SO4	Sulfate	49.8	mg/L	12.5
AC04544	LM15	Little Miami Watershed	15	7/30/2012	13:30	CL	Chloride	57.2	mg/L	1.00
AC04544	LM15	Little Miami Watershed	15	7/30/2012	13:30	TSS	Tot. Suspended Solids	8	mg/L	2
AC04544	LM15	Little Miami Watershed	15	7/30/2012	13:30	SSC	Suspended Sediment Concentration	12.0	mg/L	5.0
AC04544	LM15	Little Miami Watershed	15	7/30/2012	13:30	HARD	Hardness as CaCO3	208	mg/l	
AC04544	LM15	Little Miami Watershed	15	7/30/2012	13:30	COD	COD	14	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04544	LM15	Little Miami Watershed	15	7/30/2012	13:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	565	uS/cm	
AC04544	LM15	Little Miami Watershed	15	7/30/2012	13:30	TEMP_FLD	Temperature (Field) Celsius	27.91	Deg C	
AC04544	LM15	Little Miami Watershed	15	7/30/2012	13:30	PH_FLD	pH (Field)	8.21	S.U.	
AC04544	LM15	Little Miami Watershed	15	7/30/2012	13:30	DO_FLD	Dissolved Oxygen (field) mg/L	12.23	mg/l	
AC04544	LM15	Little Miami Watershed	15	7/30/2012	13:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	535	uS/cm	
AC04544	LM15	Little Miami Watershed	15	7/30/2012	13:30	NH3	Ammonia as N	0	mg/L	0.5
AC04544	LM15	Little Miami Watershed	15	7/30/2012	13:30	NO3NO2	Nitrate + Nitrite	0.836	mg/L	0.5
AC04544	LM15	Little Miami Watershed	15	7/30/2012	13:30	TKN	Total Kjeldahl Nitrogen	0.8826	mg/L	0.5
AC04544	LM15	Little Miami Watershed	15	7/30/2012	13:30	TKP	Total Kjeldahl Phosphorus	0.3114	mg/L	0.5
AC04544	LM15	Little Miami Watershed	15	7/30/2012	13:30	NO2	Nitrite as N	0.0168	mg/l	0.005
AC04544	LM15	Little Miami Watershed	15	7/30/2012	13:30	NO3	Nitrate as N (calculated)	0.8192	mg/l	
AC04544	LM15	Little Miami Watershed	15	7/30/2012	13:30	CHLOROPHYLL	Chlorophyll	25.6	mg/m3	1.00
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	MF_CF	Fecal Coliform, Membrane Filter	210	CFU/100mL	
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	E-COLI	E.coli (Colilert)	238	MPN	
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	TDS	Total Dissolved Solids	330	mg/L	
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	SO4	Sulfate	45.0	mg/L	12.5
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	CL	Chloride	50.2	mg/L	1.00
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	TSS	Tot. Suspended Solids	2	mg/L	2
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	HARD	Hardness as CaCO3	392	mg/l	
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	COD	COD	8	mg/L	
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	593	uS/cm	
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	TEMP_FLD	Temperature (Field) Celsius	15.68	Deg C	
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	PH_FLD	pH (Field)	6.67	S.U.	
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	DO_FLD	Dissolved Oxygen (field) mg/L	3.65	mg/l	
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	723	uS/cm	
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	\$ICP	Antimony	0.0140	mg/L	0.006
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	\$ICP	Arsenic	0.0425	mg/L	0.012
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	\$ICP	Barium	0.0642	mg/L	0.003
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	\$ICP	Cadmium	0.00	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	\$ICP	Calcium	106	mg/L	0.066
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	\$ICP	Chromium	0.00	mg/L	0.006
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	\$ICP	Copper	0.00690	mg/L	0.006
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	\$ICP	Iron	0.0332	mg/L	0.018
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	\$ICP	Lead	0.0191	mg/L	0.006
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	\$ICP	Magnesium	20.7	mg/L	0.021
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	\$ICP	Manganese	0.0391	mg/L	0.009
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	\$ICP	Nickel	0.00390	mg/L	0.003
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	\$ICP	Selenium	0.123	mg/L	0.009
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	\$ICP	Silver	0.00	mg/L	0.003
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	\$ICP	Strontium	0.265	mg/L	0.009
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	\$ICP	Thallium	0.00	mg/L	0.012
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	\$ICP	Tin	0.00	mg/L	0.006
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	\$ICP	Zinc	0.0118	mg/L	0.006
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	PB_FU	Lead by Furnace	0.281	ug/L	0.5
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	AS_FU	Arsenic by Furnace	1.382	ug/L	1.0
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	CU_FU	Copper by Furnace	AA	ug/L	1
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	NH3	Ammonia as N	0	mg/L	0.5
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	TKN	Total Kjeldahl Nitrogen	0.3636	mg/L	0.5
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	TKP	Total Kjeldahl Phosphorus	0.2270	mg/L	0.5
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	NO2	Nitrite as N	0.0095	mg/l	0.005
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04587	RF09	Little Miami Watershed	09	7/31/2012	08:50	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	MF_CF	Fecal Coliform, Membrane Filter	325	CFU/100mL	
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	E-COLI	E.coli (Colilert)	152	MPN	
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	TDS	Total Dissolved Solids	240	mg/L	
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	SO4	Sulfate	50.8	mg/L	12.5
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	CL	Chloride	58.7	mg/L	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	TSS	Tot. Suspended Solids	7	mg/L	2
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	HARD	Hardness as CaCO3	290	mg/l	
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	COD	COD	12	mg/L	
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	567	uS/cm	
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	TEMP_FLD	Temperature (Field) Celsius	22.99	Deg C	
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	PH_FLD	pH (Field)	7.48	S.U.	
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	DO_FLD	Dissolved Oxygen (field) mg/L	5.29	mg/l	
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	589	uS/cm	
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	\$ICP	Aluminum	0.00	mg/L	0.348
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	\$ICP	Antimony	0.00	mg/L	0.006
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	\$ICP	Arsenic	0.00	mg/L	0.012
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	\$ICP	Barium	0.0556	mg/L	0.003
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	\$ICP	Calcium	62.0	mg/L	0.066
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	\$ICP	Chromium	0.00	mg/L	0.006
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	\$ICP	Copper	0.00816	mg/L	0.006
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	\$ICP	Iron	0.133	mg/L	0.018
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	\$ICP	Lead	0.00906	mg/L	0.006
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	\$ICP	Magnesium	16.3	mg/L	0.021
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	\$ICP	Manganese	0.102	mg/L	0.009
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	\$ICP	Nickel	0.00357	mg/L	0.003
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	\$ICP	Selenium	0.0581	mg/L	0.009
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	\$ICP	Silver	0.00	mg/L	0.003
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	\$ICP	Strontium	0.265	mg/L	0.009
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	\$ICP	Thallium	0.00	mg/L	0.012
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	\$ICP	Tin	0.00	mg/L	0.006
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	\$ICP	Zinc	0.0172	mg/L	0.006
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	AS_FU	Arsenic by Furnace	1.427	ug/L	1.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	CU_FU	Copper by Furnace	4.2	ug/L	1
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	NH3	Ammonia as N	0	mg/L	0.5
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	TKN	Total Kjeldahl Nitrogen	0.45	mg/L	0.5
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	TKP	Total Kjeldahl Phosphorus	0.2425	mg/L	0.5
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	NO2	Nitrite as N	0.0088	mg/l	0.005
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04588	RF08	Little Miami Watershed	08	7/31/2012	09:15	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	MF_CF	Fecal Coliform, Membrane Filter	21	CFU/100mL	
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	E-COLI	E.coli (Colilert)	19	MPN	
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	TDS	Total Dissolved Solids	290	mg/L	
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	SO4	Sulfate	27.8	mg/L	5.0
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	CL	Chloride	26.2	mg/L	1.00
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	TSS	Tot. Suspended Solids	22	mg/L	2
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	SSC	Suspended Sediment Concentration	10.0	mg/L	5.0
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	HARD	Hardness as CaCO3	392	mg/l	
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	COD	COD	5	mg/L	
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	578	uS/cm	
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	TEMP_FLD	Temperature (Field) Celsius	18.72	Deg C	
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	PH_FLD	pH (Field)	7.14	S.U.	
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	DO_FLD	Dissolved Oxygen (field) mg/L	3.38	mg/l	
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	657	uS/cm	
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	\$ICP	Antimony	0.0207	mg/L	0.006
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	\$ICP	Arsenic	0.0657	mg/L	0.012
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	\$ICP	Barium	0.0927	mg/L	0.003
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	\$ICP	Calcium	103	mg/L	0.066
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	\$ICP	Chromium	0.00	mg/L	0.006
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	\$ICP	Cobalt	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	\$ICP	Copper	0.00651	mg/L	0.006
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	\$ICP	Iron	0.132	mg/L	0.018
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	\$ICP	Lead	0.0231	mg/L	0.006
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	\$ICP	Magnesium	25.2	mg/L	0.021
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	\$ICP	Manganese	0.137	mg/L	0.009
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	\$ICP	Nickel	0.00302	mg/L	0.003
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	\$ICP	Selenium	0.141	mg/L	0.009
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	\$ICP	Silver	0.00	mg/L	0.003
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	\$ICP	Strontium	0.168	mg/L	0.009
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	\$ICP	Thallium	0.00	mg/L	0.012
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	\$ICP	Tin	0.00	mg/L	0.006
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	\$ICP	Zinc	0.0117	mg/L	0.006
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	AS_FU	Arsenic by Furnace	1.284	ug/L	1.0
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	CU_FU	Copper by Furnace	AA	ug/L	1
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	NH3	Ammonia as N	0	mg/L	0.5
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	TKN	Total Kjeldahl Nitrogen	0.2320	mg/L	0.5
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	TKP	Total Kjeldahl Phosphorus	0.2307	mg/L	0.5
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	NO2	Nitrite as N	0.0053	mg/l	0.005
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04589	RF10	Little Miami Watershed	10	7/31/2012	09:40	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04590	LM11	Little Miami Watershed	11	7/31/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	171	CFU/100mL	
AC04590	LM11	Little Miami Watershed	11	7/31/2012	11:00	E-COLI	E.coli (Colilert)	126	MPN	
AC04590	LM11	Little Miami Watershed	11	7/31/2012	11:00	TDS	Total Dissolved Solids	230	mg/L	
AC04590	LM11	Little Miami Watershed	11	7/31/2012	11:00	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC04590	LM11	Little Miami Watershed	11	7/31/2012	11:00	SO4	Sulfate	46.0	mg/L	12.5
AC04590	LM11	Little Miami Watershed	11	7/31/2012	11:00	CL	Chloride	65.9	mg/L	1.00
AC04590	LM11	Little Miami Watershed	11	7/31/2012	11:00	TSS	Tot. Suspended Solids	18	mg/L	2
AC04590	LM11	Little Miami Watershed	11	7/31/2012	11:00	SSC	Suspended Sediment Concentration	13.0	mg/L	5.0
AC04590	LM11	Little Miami Watershed	11	7/31/2012	11:00	HARD	Hardness as CaCO3	276	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04590	LM11	Little Miami Watershed	11	7/31/2012	11:00	COD	COD	22	mg/L	
AC04590	LM11	Little Miami Watershed	11	7/31/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	557	uS/cm	
AC04590	LM11	Little Miami Watershed	11	7/31/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	26.36	Deg C	
AC04590	LM11	Little Miami Watershed	11	7/31/2012	11:00	PH_FLD	pH (Field)	8.43	S.U.	
AC04590	LM11	Little Miami Watershed	11	7/31/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	10.56	mg/l	
AC04590	LM11	Little Miami Watershed	11	7/31/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	542	uS/cm	
AC04590	LM11	Little Miami Watershed	11	7/31/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC04590	LM11	Little Miami Watershed	11	7/31/2012	11:00	NO3NO2	Nitrate + Nitrite	0.853	mg/L	0.5
AC04590	LM11	Little Miami Watershed	11	7/31/2012	11:00	TKN	Total Kjeldahl Nitrogen	1.3043	mg/L	0.5
AC04590	LM11	Little Miami Watershed	11	7/31/2012	11:00	TKP	Total Kjeldahl Phosphorus	0.3171	mg/L	0.5
AC04590	LM11	Little Miami Watershed	11	7/31/2012	11:00	NO2	Nitrite as N	0.0196	mg/l	0.005
AC04590	LM11	Little Miami Watershed	11	7/31/2012	11:00	NO3	Nitrate as N (calculated)	0.8334	mg/l	
AC04590	LM11	Little Miami Watershed	11	7/31/2012	11:00	CHLOROPHYLL	Chlorophyll	89.7	mg/m3	1.00
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	MF_CF	Fecal Coliform, Membrane Filter	186	CFU/100mL	
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	E-COLI	E.coli (Colilert)	140	MPN	
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	TDS	Total Dissolved Solids	420	mg/L	
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	SO4	Sulfate	72.5	mg/L	12.5
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	CL	Chloride	101	mg/L	1.00
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	TSS	Tot. Suspended Solids	2	mg/L	2
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	HARD	Hardness as CaCO3	372	mg/l	
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	COD	COD	15	mg/L	
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	745	uS/cm	
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	TEMP_FLD	Temperature (Field) Celsius	22.30	Deg C	
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	PH_FLD	pH (Field)	7.55	S.U.	
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	DO_FLD	Dissolved Oxygen (field) mg/L	6.96	mg/l	
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	786	uS/cm	
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	\$ICP	Antimony	0.00	mg/L	0.006
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	\$ICP	Arsenic	0.0633	mg/L	0.012
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	\$ICP	Barium	0.0475	mg/L	0.003
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	\$ICP	Beryllium	0.00	mg/L	0.009



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	\$ICP	Calcium	72.1	mg/L	0.066
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	\$ICP	Chromium	0.00	mg/L	0.006
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	\$ICP	Copper	0.00766	mg/L	0.006
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	\$ICP	Iron	0.0325	mg/L	0.018
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	\$ICP	Lead	0.0132	mg/L	0.006
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	\$ICP	Magnesium	17.0	mg/L	0.021
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	\$ICP	Manganese	0.00	mg/L	0.009
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	\$ICP	Nickel	0.00494	mg/L	0.003
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	\$ICP	Selenium	0.131	mg/L	0.009
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	\$ICP	Silver	0.00	mg/L	0.003
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	\$ICP	Strontium	0.311	mg/L	0.009
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	\$ICP	Thallium	0.0280	mg/L	0.012
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	\$ICP	Tin	0.00	mg/L	0.006
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	\$ICP	Zinc	0.0128	mg/L	0.006
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	AS_FU	Arsenic by Furnace	0.501	ug/L	1.0
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	CU_FU	Copper by Furnace	3.1	ug/L	1
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	NO3NO2	Nitrate + Nitrite	0.873	mg/L	0.5
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	TKN	Total Kjeldahl Nitrogen	0.5579	mg/L	0.5
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	TKP	Total Kjeldahl Phosphorus	0.2686	mg/L	0.5
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	NO2	Nitrite as N	0.0050	mg/l	0.005
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	NO3	Nitrate as N (calculated)	0.8680	mg/l	
AC04591	LM105	Little Miami Watershed	105	7/31/2012	11:30	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	MF_CF	Fecal Coliform, Membrane Filter	280	CFU/100mL	
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	E-COLI	E.coli (Colilert)	411	MPN	
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	TDS	Total Dissolved Solids	280	mg/L	
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	SO4	Sulfate	60.5	mg/L	12.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	CL	Chloride	57.0	mg/L	1.00
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	TSS	Tot. Suspended Solids	4	mg/L	2
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	HARD	Hardness as CaCO3	314	mg/l	
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	COD	COD	12	mg/L	
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	542	uS/cm	
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	TEMP_FLD	Temperature (Field) Celsius	23.41	Deg C	
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	PH_FLD	pH (Field)	7.74	S.U.	
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	DO_FLD	Dissolved Oxygen (field) mg/L	8.38	mg/l	
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	559	uS/cm	
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	\$ICP	Antimony	0.00	mg/L	0.006
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	\$ICP	Arsenic	0.0677	mg/L	0.012
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	\$ICP	Barium	0.0315	mg/L	0.003
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	\$ICP	Calcium	60.2	mg/L	0.066
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	\$ICP	Chromium	0.00	mg/L	0.006
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	\$ICP	Copper	0.00879	mg/L	0.006
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	\$ICP	Iron	0.186	mg/L	0.018
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	\$ICP	Lead	0.00967	mg/L	0.006
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	\$ICP	Magnesium	10.7	mg/L	0.021
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	\$ICP	Manganese	0.0283	mg/L	0.009
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	\$ICP	Nickel	0.00468	mg/L	0.003
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	\$ICP	Selenium	0.0697	mg/L	0.009
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	\$ICP	Silver	0.00	mg/L	0.003
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	\$ICP	Strontium	0.257	mg/L	0.009
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	\$ICP	Thallium	0.0235	mg/L	0.012
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	\$ICP	Tin	0.00	mg/L	0.006
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	\$ICP	Zinc	0.0116	mg/L	0.006
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	PB_FU	Lead by Furnace	0	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	AS_FU	Arsenic by Furnace	2.214	ug/L	1.0
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	CU_FU	Copper by Furnace	2.2	ug/L	1
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	NH3	Ammonia as N	0	mg/L	0.5
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	TKN	Total Kjeldahl Nitrogen	0.2030	mg/L	0.5
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	TKP	Total Kjeldahl Phosphorus	0.2202	mg/L	0.5
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	NO2	Nitrite as N	0.0053	mg/l	0.005
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04592	LM108	Little Miami Watershed	108	7/31/2012	12:00	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	MF_CF	Fecal Coliform, Membrane Filter	200	CFU/100mL	
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	E-COLI	E.coli (Colilert)	236	MPN	
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	TDS	Total Dissolved Solids	310	mg/L	
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	SO4	Sulfate	75.6	mg/L	62.5
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	CL	Chloride	58.1	mg/L	1.00
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	TSS	Tot. Suspended Solids	2	mg/L	2
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	HARD	Hardness as CaCO3	342	mg/l	
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	COD	COD	12	mg/L	
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	641	uS/cm	
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	TEMP_FLD	Temperature (Field) Celsius	23.65	Deg C	
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	PH_FLD	pH (Field)	8.16	S.U.	
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	DO_FLD	Dissolved Oxygen (field) mg/L	11.41	mg/l	
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	658	uS/cm	
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	\$ICP	Antimony	0.00	mg/L	0.006
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	\$ICP	Arsenic	0.0690	mg/L	0.012
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	\$ICP	Barium	0.0424	mg/L	0.003
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	\$ICP	Calcium	75.2	mg/L	0.066
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	\$ICP	Chromium	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	\$ICP	Copper	0.00727	mg/L	0.006
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	\$ICP	Iron	0.142	mg/L	0.018
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	\$ICP	Lead	0.0150	mg/L	0.006
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	\$ICP	Magnesium	15.3	mg/L	0.021
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	\$ICP	Manganese	0.0183	mg/L	0.009
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	\$ICP	Nickel	0.00420	mg/L	0.003
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	\$ICP	Selenium	0.102	mg/L	0.009
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	\$ICP	Silver	0.00	mg/L	0.003
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	\$ICP	Strontium	0.333	mg/L	0.009
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	\$ICP	Thallium	0.00	mg/L	0.012
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	\$ICP	Tin	0.00	mg/L	0.006
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	\$ICP	Zinc	0.0112	mg/L	0.006
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	AS_FU	Arsenic by Furnace	0.810	ug/L	1.0
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	CU_FU	Copper by Furnace	1.9	ug/L	1
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	NH3	Ammonia as N	0	mg/L	0.5
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	TKN	Total Kjeldahl Nitrogen	0.4264	mg/L	0.5
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	TKP	Total Kjeldahl Phosphorus	0.2343	mg/L	0.5
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	NO2	Nitrite as N	0.0042	mg/l	0.005
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	NO3	Nitrate as N (calculated)	10.7958	mg/l	
AC04593	LM104	Little Miami Watershed	104	7/31/2012	12:30	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	MF_CF	Fecal Coliform, Membrane Filter	86	CFU/100mL	
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	E-COLI	E.coli (Colilert)	49	MPN	
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	TDS	Total Dissolved Solids	260	mg/L	
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	SO4	Sulfate	51.5	mg/L	25.0
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	CL	Chloride	77.7	mg/L	1.00
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	TSS	Tot. Suspended Solids	3	mg/L	2
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	SSC	Suspended Sediment Concentration	AA	mg/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	HARD	Hardness as CaCO3	190	mg/l	
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	COD	COD	52	mg/L	
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	580	uS/cm	
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	TEMP_FLD	Temperature (Field) Celsius	23.21	Deg C	
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	PH_FLD	pH (Field)	7.36	S.U.	
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	DO_FLD	Dissolved Oxygen (field) mg/L	5.06	mg/l	
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	601	uS/cm	
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	\$ICP	Aluminum	0.00	mg/L	0.348
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	\$ICP	Antimony	0.00658	mg/L	0.006
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	\$ICP	Arsenic	0.129	mg/L	0.012
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	\$ICP	Barium	0.0307	mg/L	0.003
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	\$ICP	Calcium	51.3	mg/L	0.066
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	\$ICP	Chromium	0.00	mg/L	0.006
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	\$ICP	Copper	0.00898	mg/L	0.006
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	\$ICP	Iron	0.0612	mg/L	0.018
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	\$ICP	Lead	0.0145	mg/L	0.006
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	\$ICP	Magnesium	10.2	mg/L	0.021
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	\$ICP	Manganese	0.0183	mg/L	0.009
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	\$ICP	Nickel	0.00349	mg/L	0.003
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	\$ICP	Selenium	0.0959	mg/L	0.009
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	\$ICP	Silver	0.00	mg/L	0.003
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	\$ICP	Strontium	0.296	mg/L	0.009
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	\$ICP	Thallium	0.0175	mg/L	0.012
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	\$ICP	Tin	0.00	mg/L	0.006
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	\$ICP	Zinc	0.0149	mg/L	0.006
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	AS_FU	Arsenic by Furnace	2.900	ug/L	1.0
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	CU_FU	Copper by Furnace	3.2	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	NH3	Ammonia as N	0	mg/L	0.5
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	NO3NO2	Nitrate + Nitrite	0.065	mg/L	0.5
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	TKN	Total Kjeldahl Nitrogen	0.5092	mg/L	0.5
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	TKP	Total Kjeldahl Phosphorus	0.1969	mg/L	0.5
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	NO2	Nitrite as N	0.0034	mg/l	0.005
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	NO3	Nitrate as N (calculated)	0.0616	mg/l	
AC04640	LM56	Little Miami Watershed	56	8/1/2012	08:10	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	MF_CF	Fecal Coliform, Membrane Filter	1267	CFU/100mL	
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	E-COLI	E.coli (Colilert)	548	MPN	
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	TDS	Total Dissolved Solids	360	mg/L	
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	SO4	Sulfate	43.5	mg/L	12.5
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	CL	Chloride	109	mg/L	1.00
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	TSS	Tot. Suspended Solids	1	mg/L	2
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	HARD	Hardness as CaCO3	280	mg/l	
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	COD	COD	42	mg/L	
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	813	uS/cm	
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	TEMP_FLD	Temperature (Field) Celsius	21.71	Deg C	
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	PH_FLD	pH (Field)	7.59	S.U.	
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	DO_FLD	Dissolved Oxygen (field) mg/L	5.92	mg/l	
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	868	uS/cm	
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	\$ICP	Aluminum	0.00	mg/L	0.348
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	\$ICP	Antimony	0.0110	mg/L	0.006
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	\$ICP	Arsenic	0.0495	mg/L	0.012
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	\$ICP	Barium	0.0413	mg/L	0.003
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	\$ICP	Beryllium	0.00	mg/L	0.009
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	\$ICP	Cadmium	0.00	mg/L	0.012
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	\$ICP	Calcium	78.8	mg/L	0.066
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	\$ICP	Chromium	0.00	mg/L	0.006
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	\$ICP	Cobalt	0.00	mg/L	0.006
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	\$ICP	Copper	0.00920	mg/L	0.006
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	\$ICP	Iron	0.0543	mg/L	0.018

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	\$ICP	Lead	0.00659	mg/L	0.006
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	\$ICP	Magnesium	13.7	mg/L	0.021
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	\$ICP	Manganese	0.0408	mg/L	0.009
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	\$ICP	Nickel	0.00324	mg/L	0.003
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	\$ICP	Selenium	0.0953	mg/L	0.009
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	\$ICP	Silver	0.00	mg/L	0.003
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	\$ICP	Strontium	0.342	mg/L	0.009
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	\$ICP	Thallium	0.00	mg/L	0.012
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	\$ICP	Tin	0.00	mg/L	0.006
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	\$ICP	Vanadium	0.00	mg/L	0.018
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	\$ICP	Zinc	0.0135	mg/L	0.006
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	AS_FU	Arsenic by Furnace	3.379	ug/L	1.0
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	CU_FU	Copper by Furnace	3.2	ug/L	1
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	NH3	Ammonia as N	0	mg/L	0.5
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	TKN	Total Kjeldahl Nitrogen	0.6664	mg/L	0.5
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	TKP	Total Kjeldahl Phosphorus	0.2716	mg/L	0.5
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	NO2	Nitrite as N	0.0059	mg/l	0.005
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04641	LM48	Little Miami Watershed	48	8/1/2012	08:35	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	MF_CF	Fecal Coliform, Membrane Filter	2100	CFU/100mL	
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	E-COLI	E.coli (Colilert)	179	MPN	
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	TDS	Total Dissolved Solids	350	mg/L	
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	SO4	Sulfate	53.0	mg/L	12.5
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	CL	Chloride	126	mg/L	4.0
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	TSS	Tot. Suspended Solids	3	mg/L	2
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	HARD	Hardness as CaCO3	232	mg/l	
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	COD	COD	39	mg/L	
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	916	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	TEMP_FLD	Temperature (Field) Celsius	21.57	Deg C	
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	PH_FLD	pH (Field)	7.64	S.U.	
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	DO_FLD	Dissolved Oxygen (field) mg/L	4.73	mg/l	
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	980	uS/cm	
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	\$ICP	Antimony	0.00	mg/L	0.006
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	\$ICP	Arsenic	0.0590	mg/L	0.012
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	\$ICP	Barium	0.0395	mg/L	0.003
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	\$ICP	Calcium	61.9	mg/L	0.066
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	\$ICP	Chromium	0.00	mg/L	0.006
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	\$ICP	Copper	0.00958	mg/L	0.006
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	\$ICP	Iron	0.113	mg/L	0.018
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	\$ICP	Lead	0.0143	mg/L	0.006
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	\$ICP	Magnesium	14.5	mg/L	0.021
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	\$ICP	Manganese	0.113	mg/L	0.009
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	\$ICP	Nickel	0.00363	mg/L	0.003
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	\$ICP	Selenium	0.0242	mg/L	0.009
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	\$ICP	Silver	0.00	mg/L	0.003
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	\$ICP	Strontium	0.286	mg/L	0.009
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	\$ICP	Thallium	0.0127	mg/L	0.012
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	\$ICP	Tin	0.00	mg/L	0.006
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	\$ICP	Zinc	0.0326	mg/L	0.006
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	AS_FU	Arsenic by Furnace	2.774	ug/L	1.0
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	CU_FU	Copper by Furnace	3.2	ug/L	1
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	NH3	Ammonia as N	0	mg/L	0.5
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	NO3NO2	Nitrate + Nitrite	2.56	mg/L	0.5
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	TKN	Total Kjeldahl Nitrogen	0.4359	mg/L	0.5



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	TKP	Total Kjeldahl Phosphorus	0.5212	mg/L	0.5
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	NO2	Nitrite as N	0.0131	mg/l	0.005
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	NO3	Nitrate as N (calculated)	2.5469	mg/l	
AC04642	LM47	Little Miami Watershed	47	8/1/2012	08:50	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	MF_CF	Fecal Coliform, Membrane Filter	290	CFU/100mL	
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	E-COLI	E.coli (Colilert)	194	MPN	
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	TDS	Total Dissolved Solids	430	mg/L	
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	SO4	Sulfate	80.0	mg/L	25.0
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	CL	Chloride	66.6	mg/L	1.00
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	TSS	Tot. Suspended Solids	40	mg/L	2
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	SSC	Suspended Sediment Concentration	28.0	mg/L	5.0
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	HARD	Hardness as CaCO3	302	mg/l	
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	COD	COD	15	mg/L	
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	718	uS/cm	
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	TEMP_FLD	Temperature (Field) Celsius	22.23	Deg C	
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	PH_FLD	pH (Field)	7.54	S.U.	
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	DO_FLD	Dissolved Oxygen (field) mg/L	4.67	mg/l	
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	758	uS/cm	
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	\$ICP	Aluminum	0.00	mg/L	0.348
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	\$ICP	Antimony	0.00	mg/L	0.006
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	\$ICP	Arsenic	0.0498	mg/L	0.012
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	\$ICP	Barium	0.0425	mg/L	0.003
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	\$ICP	Calcium	88.3	mg/L	0.066
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	\$ICP	Chromium	0.00	mg/L	0.006
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	\$ICP	Copper	0.0117	mg/L	0.006
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	\$ICP	Iron	0.487	mg/L	0.018
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	\$ICP	Lead	0.0179	mg/L	0.006
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	\$ICP	Magnesium	15.8	mg/L	0.021
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	\$ICP	Manganese	0.0335	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	\$ICP	Nickel	0.00838	mg/L	0.003
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	\$ICP	Selenium	0.0391	mg/L	0.009
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	\$ICP	Silver	0.00	mg/L	0.003
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	\$ICP	Strontium	0.389	mg/L	0.009
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	\$ICP	Thallium	0.00	mg/L	0.012
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	\$ICP	Tin	0.00	mg/L	0.006
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	\$ICP	Zinc	0.0206	mg/L	0.006
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	AS_FU	Arsenic by Furnace	4.397	ug/L	1.0
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	CU_FU	Copper by Furnace	5.1	ug/L	1
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	NH3	Ammonia as N	0	mg/L	0.5
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	TKN	Total Kjeldahl Nitrogen	0.9268	mg/L	0.5
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	NO2	Nitrite as N	0.0057	mg/l	0.005
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04643	LM82	Little Miami Watershed	82	8/1/2012	09:10	CHLOROPHYLL	Chlorophyll	4.27	mg/m3	1.00
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	MF_CF	Fecal Coliform, Membrane Filter	3500	CFU/100mL	
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	E-COLI	E.coli (Colilert)	1414	MPN	
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	TDS	Total Dissolved Solids	1120	mg/L	
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	SO4	Sulfate	138	mg/L	50.0
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	CL	Chloride	515	mg/L	10.0
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	TSS	Tot. Suspended Solids	13	mg/L	2
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	SSC	Suspended Sediment Concentration	10.0	mg/L	5.0
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	HARD	Hardness as CaCO3	460	mg/l	
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	COD	COD	45	mg/L	
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	2262	uS/cm	
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	TEMP_FLD	Temperature (Field) Celsius	24.75	Deg C	
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	PH_FLD	pH (Field)	7.34	S.U.	
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	DO_FLD	Dissolved Oxygen (field) mg/L	2.97	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	2290	uS/cm	
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	\$ICP	Antimony	0.00	mg/L	0.006
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	\$ICP	Arsenic	0.0693	mg/L	0.012
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	\$ICP	Barium	0.0929	mg/L	0.003
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	\$ICP	Calcium	143	mg/L	0.066
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	\$ICP	Chromium	0.00	mg/L	0.006
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	\$ICP	Copper	0.00	mg/L	0.006
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	\$ICP	Iron	0.925	mg/L	0.018
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	\$ICP	Lead	0.0259	mg/L	0.006
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	\$ICP	Magnesium	51.5	mg/L	0.021
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	\$ICP	Manganese	0.326	mg/L	0.009
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	\$ICP	Nickel	0.00	mg/L	0.003
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	\$ICP	Selenium	0.0869	mg/L	0.009
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	\$ICP	Silver	0.00	mg/L	0.003
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	\$ICP	Strontium	0.450	mg/L	0.009
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	\$ICP	Thallium	0.00	mg/L	0.012
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	\$ICP	Tin	0.00	mg/L	0.006
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	\$ICP	Zinc	0.0110	mg/L	0.006
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	AS_FU	Arsenic by Furnace	2.712	ug/L	1.0
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	CU_FU	Copper by Furnace	5.0	ug/L	1
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	NH3	Ammonia as N	0	mg/L	0.5
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	TKN	Total Kjeldahl Nitrogen	0.8337	mg/L	0.5
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	NO2	Nitrite as N	0.0061	mg/l	0.005
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	NO3	Nitrate as N (calculated)	AW	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04644	LM80	Little Miami Watershed	80	8/1/2012	09:50	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	TSS	Tot. Suspended Solids	26	mg/L	2
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	COD	COD	40	mg/L	
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	TDS	Total Dissolved Solids	260	mg/L	
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	CBOD	Carbonaceous Biochemical Oxygen Demand	4	mg/L	2
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	MF_CF	Fecal Coliform, Membrane Filter	86	CFU/100mL	
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Bromochloromethane	50.0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Chloromethane	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Vinyl Chloride	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Bromomethane	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Chloroethane	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Acrolein	0	ug/L	100.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Acrylonitrile	0	ug/L	100.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Methylene Chloride	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Chloroform	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	1,2-Dichloroethane-d4	46.5	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Benzene	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Trichloroethene	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Bromodichloromethane	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Dibromochloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Bromoform	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Tetrachloroethene	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	1,1,2,2-Tetrachloroethane	5.5	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Toluene	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Toluene-d8	50.4	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Chlorobenzene	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Ethylbenzene	0	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Bromofluorobenzene	57.7	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	1,3-Dichlorobenzene	5.1	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	1,4-Dichlorobenzene	5.6	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	1,2-Dichlorobenzene	6.3	ug/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	2-Propanone	0	ug/L	60
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	2-Butanone	0	ug/L	60
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	Tetrahydrofuran	0	ug/L	
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	2-chloroethoxy ethene	0	ug/L	
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$624	TOTAL AMOUNT	327	ug/L	
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	NH3	Ammonia as N	0	mg/L	0.5
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	TKN	Total Kjeldahl Nitrogen	1.514	mg/L	0.5
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	O&G	O&G Total	0.5	mg/L	5
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	CN	Cyanide	.0056	mg/L	0.005
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	CN_A	Cyanide Amenable	0.0025	mg/L	0.005
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	CN_F	Cyanide Free	0.0000	mg/L	0.005
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	pyridine	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	2-Fluorophenol	52.8	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	aniline	0	ug/L	6.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Phenol-d6	36.6	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Phenol	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	2-Chlorophenol	0	ug/L	6.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	n-decane	0	ug/L	6.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	o-cresol	0	ug/L	6.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	acetophenone	0	ug/L	6.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Hexachloroethane	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Nitrobenzene-d5	73.6	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	p-cresol	0	ug/L	6.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Nitrobenzene	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Isophorone	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Decafluorobiphenyl	69.8	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	2-Nitrophenol	0	ug/L	6.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Naphthalene	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	1-Fluoronaphthalene	75.0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	alpha terpineol	0	ug/L	6.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Dimethyl phthalate	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Acenaphthylene	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Acenaphthene	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	2,4-Dinitrophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	4-Nitrophenol	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Diethyl phthalate	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Fluorene	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	2,4,6-Tribromophenol	78.9	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Hexachlorobenzene	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Pentachlorophenol	0	ug/L	6.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	n-octadecane	0	ug/L	6.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Phenanthrene	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Anthracene	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	carbazole	0	ug/L	6.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Fluoranthene	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Chrysene-d12	50.0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Benzidine	0	ug/L	6.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Pyrene	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Chrysene	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Perylene-D12	50.0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Hexachloroethane	0	ug/L	
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	2,3-Dichloroaniline	0	ug/L	
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Diethylphthalate	0	ug/L	
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Benzo[b]fluoranthene	0	ug/L	
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Benzo[k]fluoranthene	0	ug/L	
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	Benzo[ghi]perylene	0	ug/L	
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$625	TOTAL AMOUNT	687	ug/L	
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$ICP	Antimony	0.00	mg/L	0.006
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$ICP	Arsenic	0.0668	mg/L	0.012
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$ICP	Barium	0.0460	mg/L	0.003
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$ICP	Calcium	56.6	mg/L	0.066
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$ICP	Chromium	0.00	mg/L	0.006
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$ICP	Copper	0.00	mg/L	0.006
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$ICP	Iron	0.295	mg/L	0.018
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$ICP	Lead	0.0153	mg/L	0.006
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$ICP	Magnesium	17.7	mg/L	0.021
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$ICP	Manganese	0.135	mg/L	0.009
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$ICP	Nickel	0.00	mg/L	0.003
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$ICP	Selenium	0.0456	mg/L	0.009
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$ICP	Silver	0.00	mg/L	0.003
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$ICP	Strontium	0.242	mg/L	0.009
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$ICP	Thallium	0.0159	mg/L	0.012
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$ICP	Tin	0.00	mg/L	0.006
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$ICP	Vanadium	0.00	mg/L	0.018



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	\$ICP	Zinc	0.00808	mg/L	0.006
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	HARD	Hardness as CaCO3	210	mg/l	
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	HG1631	Mercury (Low Level)	2.54	ng/L	0.5
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	E-COLI	E.coli (Colilert)	99	MPN	
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	SSC	Suspended Sediment Concentration	16.0	mg/L	5.0
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	BOD	Biochemical Oxygen Demand	5	mg/L	2
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	CL	Chloride	65.3	mg/L	1.00
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	SO4	Sulfate	47.5	mg/L	12.5
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	CHLOROPHYLL	Chlorophyll	73.6	mg/m3	1.00
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	NO2	Nitrite as N	0.0199	mg/l	0.005
AC04650	3261-01	Little Miami River	1 (LM17)	8/1/2012	09:50	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	TSS	Tot. Suspended Solids	30	mg/L	2
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	COD	COD	40	mg/L	
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	TDS	Total Dissolved Solids	320	mg/L	
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	CBOD	Carbonaceous Biochemical Oxygen Demand	5	mg/L	2
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	MF_CF	Fecal Coliform, Membrane Filter	171	CFU/100mL	
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624	Bromochloromethane	50.0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624	Chloromethane	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624	Vinyl Chloride	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624	Bromomethane	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624	Chloroethane	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624	Acrolein	0	ug/L	100.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624	Acrylonitrile	0	ug/L	100.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624	Methylene Chloride	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624	Chloroform	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624	1,2-Dichloroethane-d4	47.3	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624	1,1,1-Trichloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		Benzene	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		Trichloroethene	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		Bromodichloromethane	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		Dibromochloromethane	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		Bromoform	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		Tetrachloroethene	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		Toluene	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		Toluene-d8	50.3	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		Chlorobenzene	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		Ethylbenzene	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		Bromofluorobenzene	59.1	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		2-Propanone	0	ug/L	60
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		2-Butanone	0	ug/L	60
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		Tetrahydrofuran	0	ug/L	
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		2-chloroethoxy ethene	0	ug/L	
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$624		TOTAL AMOUNT	307	ug/L	
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10		NH3	Ammonia as N	0	mg/L	0.5
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10		NO3NO2	Nitrate + Nitrite	0.500	mg/L	0.5
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10		TKN	Total Kjeldahl Nitrogen	1.473	mg/L	0.5
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10		TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10		O&G	O&G Total	0.71	mg/L	5
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10		CN	Cyanide	.0035	mg/L	0.005

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	CN_A	Cyanide Amenable	0.0007	mg/L	0.005
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	CN_F	Cyanide Free	0.0000	mg/L	0.005
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	pyridine	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	2-Fluorophenol	47.2	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	aniline	0	ug/L	6.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Phenol-d6	33.8	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Phenol	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	2-Chlorophenol	0	ug/L	6.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	n-decane	0	ug/L	6.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	o-cresol	0	ug/L	6.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	acetophenone	0	ug/L	6.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Hexachloroethane	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Nitrobenzene-d5	71.7	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	p-cresol	0	ug/L	6.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Nitrobenzene	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Isophorone	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Decafluorobiphenyl	67.5	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	2-Nitrophenol	0	ug/L	6.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Naphthalene	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	1-Fluoronaphthalene	74.7	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	alpha terpineol	0	ug/L	6.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		Dimethyl phthalate	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		Acenaphthylene	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		Acenaphthene	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		4-Nitrophenol	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		Diethyl phthalate	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		Fluorene	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		2,4,6-Tribromophenol	73.5	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		Hexachlorobenzene	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		Pentachlorophenol	0	ug/L	6.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		n-octadecane	0	ug/L	6.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		Phenanthrene	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		Anthracene	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		carbazole	0	ug/L	6.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		Fluoranthene	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		Chrysene-d12	50.0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		Benzidine	0	ug/L	6.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		Pyrene	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625		Butyl benzyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Chrysene	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Perylene-D12	50.0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Hexachloroethane	0	ug/L	
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	2,3-Dichloroaniline	0	ug/L	
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Diethylphthalate	0	ug/L	
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Benzo[b]fluoranthene	0	ug/L	
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Benzo[k]fluoranthene	0	ug/L	
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	Benzo[ghi]perylene	0	ug/L	
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$625	TOTAL AMOUNT	668	ug/L	
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$ICP	Aluminum	0.00	mg/L	0.348
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$ICP	Antimony	0.00	mg/L	0.006
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$ICP	Arsenic	0.00	mg/L	0.012
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$ICP	Barium	0.0461	mg/L	0.003
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$ICP	Calcium	55.9	mg/L	0.066
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$ICP	Chromium	0.00	mg/L	0.006
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$ICP	Copper	0.00	mg/L	0.006
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$ICP	Iron	0.244	mg/L	0.018

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$ICP	Lead	0.0187	mg/L	0.006
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$ICP	Magnesium	17.7	mg/L	0.021
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$ICP	Manganese	0.128	mg/L	0.009
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$ICP	Nickel	0.00	mg/L	0.003
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$ICP	Selenium	0.0789	mg/L	0.009
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$ICP	Silver	0.00	mg/L	0.003
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$ICP	Strontium	0.237	mg/L	0.009
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$ICP	Thallium	0.00	mg/L	0.012
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$ICP	Tin	0.00	mg/L	0.006
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	\$ICP	Zinc	0.0173	mg/L	0.006
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	HARD	Hardness as CaCO3	208	mg/l	
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	HG1631	Mercury (Low Level)	1.79	ng/L	0.5
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	E-COLI	E.coli (Colilert)	152	MPN	
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	NO2	Nitrite as N	0.0183	mg/l	0.005
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	CHLOROPHYLL	Chlorophyll	74.8	mg/m3	1.00
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	SO4	Sulfate	53.5	mg/L	12.5
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	SSC	Suspended Sediment Concentration	15.0	mg/L	5.0
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	CL	Chloride	63.8	mg/L	1.00
AC04651	3261-02	Little Miami River	2 (LM16)	8/1/2012	10:10	NO3	Nitrate as N (calculated)	0.4817	mg/l	
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	TSS	Tot. Suspended Solids	8	mg/L	2
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	COD	COD	13	mg/L	
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	TDS	Total Dissolved Solids	290	mg/L	
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	CBOD	Carbonaceous Biochemical Oxygen Demand	3	mg/L	2
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	MF_CF	Fecal Coliform, Membrane Filter	107	CFU/100mL	
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624	Bromochloromethane	50.0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624	Chloromethane	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624	Vinyl Chloride	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624	Bromomethane	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624	Chloroethane	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624	Acrolein	0	ug/L	100.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		Acrylonitrile	0	ug/L	100.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		Methylene Chloride	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		Chloroform	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		1,2-Dichloroethane-d4	46.8	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		Benzene	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		Trichloroethene	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		Bromodichloromethane	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		Dibromochloromethane	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		Bromoform	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		Tetrachloroethene	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		Toluene	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		Toluene-d8	51.2	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		Chlorobenzene	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		Ethylbenzene	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		Bromofluorobenzene	59.3	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624		2-Propanone	0	ug/L	60

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624	2-Butanone	0	ug/L	60
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624	Tetrahydrofuran	0	ug/L	
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624	2-chloroethoxy ethene	0	ug/L	
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$624	TOTAL AMOUNT	307	ug/L	
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	NH3	Ammonia as N	0	mg/L	0.5
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	NO3NO2	Nitrate + Nitrite	0.611	mg/L	0.5
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	TKN	Total Kjeldahl Nitrogen	1.431	mg/L	0.5
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	O&G	O&G Total	0.26	mg/L	5
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	CN	Cyanide	.0025	mg/L	0.005
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	CN_A	Cyanide Amenable	AE	mg/L	0.005
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	CN_F	Cyanide Free	0.0000	mg/L	0.005
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	pyridine	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	2-Fluorophenol	22.6	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	aniline	0	ug/L	6.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	Phenol-d6	27.7	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	Phenol	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	2-Chlorophenol	0	ug/L	6.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	n-decane	0	ug/L	6.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	o-cresol	0	ug/L	6.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	acetophenone	0	ug/L	6.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	Hexachloroethane	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	Nitrobenzene-d5	77.0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	p-cresol	0	ug/L	6.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	Nitrobenzene	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	Isophorone	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	Decafluorobiphenyl	72.6	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	2-Nitrophenol	0	ug/L	6.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	Naphthalene	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	1-Fluoronaphthalene	77.7	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	alpha terpineol	0	ug/L	6.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	Dimethyl phthalate	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	Acenaphthylene	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	Acenaphthene	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	4-Nitrophenol	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	Diethyl phthalate	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	Fluorene	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	2,4,6-Tribromophenol	30.5	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	Hexachlorobenzene	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625	Pentachlorophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		n-octadecane	0	ug/L	6.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Phenanthrene	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Anthracene	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		carbazole	0	ug/L	6.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Fluoranthene	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Chrysene-d12	50.0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Benzidine	0	ug/L	6.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Pyrene	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Chrysene	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Perylene-D12	50.0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Hexachloroethane	0	ug/L	
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		2,3-Dichloroaniline	0	ug/L	
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Diethylphthalate	0	ug/L	
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Benzo[b]fluoranthene	0	ug/L	
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Benzo[k]fluoranthene	0	ug/L	
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		Benzo[ghi]perylene	0	ug/L	
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$625		TOTAL AMOUNT	608	ug/L	
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$ICP		Aluminum	0.00	mg/L	0.348

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$ICP	Antimony	0.00	mg/L	0.006
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$ICP	Arsenic	0.0452	mg/L	0.012
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$ICP	Barium	0.0425	mg/L	0.003
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$ICP	Beryllium	0.00	mg/L	0.009
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$ICP	Cadmium	0.00	mg/L	0.012
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$ICP	Calcium	46.7	mg/L	0.066
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$ICP	Chromium	0.00	mg/L	0.006
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$ICP	Cobalt	0.00	mg/L	0.006
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$ICP	Copper	0.00	mg/L	0.006
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$ICP	Iron	0.352	mg/L	0.018
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$ICP	Lead	0.0140	mg/L	0.006
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$ICP	Magnesium	17.1	mg/L	0.021
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$ICP	Manganese	0.112	mg/L	0.009
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$ICP	Nickel	0.00	mg/L	0.003
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$ICP	Selenium	0.0816	mg/L	0.009
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$ICP	Silver	0.00	mg/L	0.003
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$ICP	Strontium	0.216	mg/L	0.009
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$ICP	Thallium	0.00	mg/L	0.012
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$ICP	Tin	0.00	mg/L	0.006
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$ICP	Vanadium	0.00	mg/L	0.018
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	\$ICP	Zinc	0.00924	mg/L	0.006
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	HARD	Hardness as CaCO3	176	mg/l	
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	HG1631	Mercury (Low Level)	2.39	ng/L	0.5
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	E-COLI	E.coli (Colilert)	133	MPN	
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	CL	Chloride	66.9	mg/L	1.00
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	SSC	Suspended Sediment Concentration	19.0	mg/L	5.0
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	SO4	Sulfate	46.8	mg/L	12.5
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	NO2	Nitrite as N	0.0193	mg/l	0.005
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	CHLOROPHYLL	Chlorophyll	AE	mg/m3	1.00
AC04652	3261-03	Little Miami River	3 (LM13)	8/1/2012	10:35	NO3	Nitrate as N (calculated)	0.5917	mg/l	
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	TSS	Tot. Suspended Solids	6	mg/L	2
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	COD	COD	11	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	TDS	Total Dissolved Solids	270	mg/L	
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	CBOD	Carbonaceous Biochemical Oxygen Demand	5	mg/L	2
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	MF_CF	Fecal Coliform, Membrane Filter	86	CFU/100mL	
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Bromochloromethane	50.0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Chloromethane	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Vinyl Chloride	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Bromomethane	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Chloroethane	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Acrolein	0	ug/L	100.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Acrylonitrile	0	ug/L	100.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Methylene Chloride	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Chloroform	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	1,2-Dichloroethane-d4	46.0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Benzene	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Trichloroethene	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Bromodichloromethane	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Dibromochloromethane	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Bromoform	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Tetrachloroethene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Toluene	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Toluene-d8	50.5	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Chlorobenzene	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Ethylbenzene	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Bromofluorobenzene	60.0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	2-Propanone	0	ug/L	60
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	2-Butanone	0	ug/L	60
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	Tetrahydrofuran	0	ug/L	
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	2-chloroethoxy ethene	0	ug/L	
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$624	TOTAL AMOUNT	306	ug/L	
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	NH3	Ammonia as N	0	mg/L	0.5
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	NO3NO2	Nitrate + Nitrite	0.622	mg/L	0.5
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	TKN	Total Kjeldahl Nitrogen	1.426	mg/L	0.5
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	O&G	O&G Total	0.12	mg/L	5
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	CN	Cyanide	.0037	mg/L	0.005
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	CN_A	Cyanide Amenable	0.0009	mg/L	0.005
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	CN_F	Cyanide Free	0.0000	mg/L	0.005
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	pyridine	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	2-Fluorophenol	48.0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	aniline	0	ug/L	6.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Phenol-d6	34.2	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Phenol	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	2-Chlorophenol	0	ug/L	6.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	n-decane	0	ug/L	6.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	o-cresol	0	ug/L	6.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	acetophenone	0	ug/L	6.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Hexachloroethane	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Nitrobenzene-d5	72.1	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	p-cresol	0	ug/L	6.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Nitrobenzene	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Isophorone	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Decafluorobiphenyl	68.6	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	2-Nitrophenol	0	ug/L	6.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Naphthalene	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	1-Fluoronaphthalene	74.2	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	alpha terpineol	0	ug/L	6.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Dimethyl phthalate	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Acenaphthylene	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Acenaphthene	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	4-Nitrophenol	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Diethyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		Fluorene	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		2,4,6-Tribromophenol	72.5	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		Hexachlorobenzene	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		Pentachlorophenol	0	ug/L	6.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		n-octadecane	0	ug/L	6.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		Phenanthrene	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		Anthracene	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		carbazole	0	ug/L	6.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		Fluoranthene	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		Chrysene-d12	50.0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		Benzidine	0	ug/L	6.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		Pyrene	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		Chrysene	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		Perylene-D12	50.0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625		Hexachloroethane	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	2,3-Dichloroaniline	0	ug/L	
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Diethylphthalate	0	ug/L	
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Benzo[b]fluoranthene	0	ug/L	
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Benzo[k]fluoranthene	0	ug/L	
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	Benzo[ghi]perylene	0	ug/L	
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$625	TOTAL AMOUNT	670	ug/L	
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$ICP	Aluminum	0.00	mg/L	0.348
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$ICP	Antimony	0.00	mg/L	0.006
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$ICP	Arsenic	0.0147	mg/L	0.012
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$ICP	Barium	0.0409	mg/L	0.003
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$ICP	Beryllium	0.00	mg/L	0.009
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$ICP	Cadmium	0.00	mg/L	0.012
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$ICP	Calcium	45.1	mg/L	0.066
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$ICP	Chromium	0.00	mg/L	0.006
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$ICP	Cobalt	0.00	mg/L	0.006
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$ICP	Copper	0.00	mg/L	0.006
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$ICP	Iron	0.208	mg/L	0.018
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$ICP	Lead	0.0124	mg/L	0.006
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$ICP	Magnesium	16.9	mg/L	0.021
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$ICP	Manganese	0.106	mg/L	0.009
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$ICP	Nickel	0.00	mg/L	0.003
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$ICP	Selenium	0.0461	mg/L	0.009
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$ICP	Silver	0.00	mg/L	0.003
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$ICP	Strontium	0.211	mg/L	0.009
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$ICP	Thallium	0.0138	mg/L	0.012
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$ICP	Tin	0.00	mg/L	0.006
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$ICP	Vanadium	0.00	mg/L	0.018
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	\$ICP	Zinc	0.00879	mg/L	0.006
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	HARD	Hardness as CaCO3	180	mg/l	
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	HG1631	Mercury (Low Level)	1.58	ng/L	0.5



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	E-COLI	E.coli (Colilert)	96	MPN	
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	SSC	Suspended Sediment Concentration	14.0	mg/L	5.0
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	CL	Chloride	66.7	mg/L	1.00
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	SO4	Sulfate	46.8	mg/L	12.5
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	CHLOROPHYLL	Chlorophyll	72.1	mg/m3	1.00
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	NO2	Nitrite as N	0.0196	mg/l	0.005
AC04653	3261-04	Little Miami River	4 (LM12)	8/1/2012	10:55	NO3	Nitrate as N (calculated)	0.6024	mg/l	
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	TSS	Tot. Suspended Solids	12	mg/L	2
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	COD	COD	44	mg/L	
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	TDS	Total Dissolved Solids	310	mg/L	
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	CBOD	Carbonaceous Biochemical Oxygen Demand	6	mg/L	2
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	MF_CF	Fecal Coliform, Membrane Filter	71	CFU/100mL	
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624	Bromochloromethane	50.0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624	Chloromethane	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624	Vinyl Chloride	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624	Bromomethane	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624	Chloroethane	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624	Acrolein	0	ug/L	100.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624	Acrylonitrile	0	ug/L	100.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624	Methylene Chloride	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624	Chloroform	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624	1,2-Dichloroethane-d4	46.6	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624	Benzene	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624	Trichloroethene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		Bromodichloromethane	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		Dibromochloromethane	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		Bromoform	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		Tetrachloroethene	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		Toluene	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		Toluene-d8	50.0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		Chlorobenzene	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		Ethylbenzene	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		Bromofluorobenzene	60.0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		2-Propanone	0	ug/L	60
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		2-Butanone	0	ug/L	60
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		Tetrahydrofuran	0	ug/L	
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		2-chloroethoxy ethene	0	ug/L	
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$624		TOTAL AMOUNT	307	ug/L	
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	NH3		Ammonia as N	0	mg/L	0.5
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	NO3NO2		Nitrate + Nitrite	0	mg/L	0.5
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	TKN		Total Kjeldahl Nitrogen	1.715	mg/L	0.5
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	TKP		Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	O&G		O&G Total	0	mg/L	5
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	CN		Cyanide	.0000	mg/L	0.005
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	CN_A		Cyanide Amenable	AE	mg/L	0.005
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	CN_F		Cyanide Free	0.0000	mg/L	0.005
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	pyridine	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	2-Fluorophenol	55.8	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	aniline	0	ug/L	6.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	Phenol-d6	37.4	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	Phenol	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	2-Chlorophenol	0	ug/L	6.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	n-decane	0	ug/L	6.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	o-cresol	0	ug/L	6.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	acetophenone	0	ug/L	6.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	Hexachloroethane	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	Nitrobenzene-d5	68.0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	p-cresol	0	ug/L	6.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	Nitrobenzene	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	Isophorone	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	Decafluorobiphenyl	70.2	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	2-Nitrophenol	0	ug/L	6.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	Naphthalene	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	1-Fluoronaphthalene	68.2	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	alpha terpineol	0	ug/L	6.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625	2,3 dichloroaniline	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Dimethyl phthalate	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Acenaphthylene	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Acenaphthene	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		4-Nitrophenol	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Diethyl phthalate	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Fluorene	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		2,4,6-Tribromophenol	80.2	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Hexachlorobenzene	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Pentachlorophenol	0	ug/L	6.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		n-octadecane	0	ug/L	6.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Phenanthrene	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Anthracene	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		carbazole	0	ug/L	6.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Fluoranthene	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Chrysene-d12	50.0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Benzidine	0	ug/L	6.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Pyrene	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Chrysene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Perylene-D12	50.0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Hexachloroethane	0	ug/L	
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		2,3-Dichloroaniline	0	ug/L	
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Diethylphthalate	0	ug/L	
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Benzo[b]fluoranthene	0	ug/L	
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Benzo[k]fluoranthene	0	ug/L	
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		Benzo[ghi]perylene	0	ug/L	
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$625		TOTAL AMOUNT	680	ug/L	
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$ICP		Aluminum	0.00	mg/L	0.348
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$ICP		Antimony	0.0111	mg/L	0.006
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$ICP		Arsenic	0.00	mg/L	0.012
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$ICP		Barium	0.0475	mg/L	0.003
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$ICP		Beryllium	0.00	mg/L	0.009
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$ICP		Cadmium	0.00	mg/L	0.012
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$ICP		Calcium	42.9	mg/L	0.066
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$ICP		Chromium	0.00	mg/L	0.006
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$ICP		Cobalt	0.00	mg/L	0.006
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$ICP		Copper	0.00	mg/L	0.006
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$ICP		Iron	0.192	mg/L	0.018
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$ICP		Lead	0.0147	mg/L	0.006
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$ICP		Magnesium	22.8	mg/L	0.021
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$ICP		Manganese	0.120	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$ICP	Nickel	0.00	mg/L	0.003
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$ICP	Selenium	0.0454	mg/L	0.009
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$ICP	Silver	0.00	mg/L	0.003
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$ICP	Strontium	0.271	mg/L	0.009
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$ICP	Thallium	0.0444	mg/L	0.012
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$ICP	Tin	0.00	mg/L	0.006
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$ICP	Vanadium	0.00	mg/L	0.018
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	\$ICP	Zinc	0.00914	mg/L	0.006
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	HARD	Hardness as CaCO3	176	mg/l	
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	HG1631	Mercury (Low Level)	5.79	ng/L	0.5
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	E-COLI	E.coli (Colilert)	73	MPN	
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	NO2	Nitrite as N	0.0180	mg/l	0.005
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	CHLOROPHYLL	Chlorophyll	129	mg/m3	1.00
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	SO4	Sulfate	57.5	mg/L	12.5
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	CL	Chloride	97.4	mg/L	1.00
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	BOD	Biochemical Oxygen Demand	6	mg/L	2
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	SSC	Suspended Sediment Concentration	18.0	mg/L	5.0
AC04654	3261-05	Little Miami River	5 (LM18)	8/1/2012	11:35	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	TSS	Tot. Suspended Solids	24	mg/L	2
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	COD	COD	29	mg/L	
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	TDS	Total Dissolved Solids	300	mg/L	
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	CBOD	Carbonaceous Biochemical Oxygen Demand	8	mg/L	2
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	MF_CF	Fecal Coliform, Membrane Filter	86	CFU/100mL	
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624	Bromochloromethane	50.0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624	Chloromethane	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624	Vinyl Chloride	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624	Bromomethane	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624	Chloroethane	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624	Acrolein	0	ug/L	100.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624	Acrylonitrile	0	ug/L	100.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624	Methylene Chloride	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		Chloroform	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		1,2-Dichloroethane-d4	46.8	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		Benzene	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		Trichloroethene	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		Bromodichloromethane	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		Dibromochloromethane	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		Bromoform	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		Tetrachloroethene	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		Toluene	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		Toluene-d8	50.0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		Chlorobenzene	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		Ethylbenzene	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		Bromofluorobenzene	60.4	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		2-Propanone	0	ug/L	60
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		2-Butanone	0	ug/L	60
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		Tetrahydrofuran	0	ug/L	
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624		2-chloroethoxy ethene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$624	TOTAL AMOUNT	307	ug/L	
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	NH3	Ammonia as N	0	mg/L	0.5
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	TKN	Total Kjeldahl Nitrogen	1.938	mg/L	0.5
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	O&G	O&G Total	1.1	mg/L	5
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	CN	Cyanide	0.0000	mg/L	0.005
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	CN_A	Cyanide Amenable	AE	mg/L	0.005
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	CN_F	Cyanide Free	0.0000	mg/L	0.005
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	pyridine	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	2-Fluorophenol	51.2	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	aniline	0	ug/L	6.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	Phenol-d6	36.3	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	Phenol	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	2-Chlorophenol	0	ug/L	6.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	n-decane	0	ug/L	6.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	o-cresol	0	ug/L	6.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	acetophenone	0	ug/L	6.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	Hexachloroethane	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	Nitrobenzene-d5	75.9	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	p-cresol	0	ug/L	6.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	Nitrobenzene	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	Isophorone	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	Decafluorobiphenyl	72.9	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	2-Nitrophenol	0	ug/L	6.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Naphthalene	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		1-Fluoronaphthalene	76.1	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		alpha terpineol	0	ug/L	6.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Dimethyl phthalate	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Acenaphthylene	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Acenaphthene	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		4-Nitrophenol	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Diethyl phthalate	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Fluorene	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		2,4,6-Tribromophenol	79.5	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Hexachlorobenzene	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Pentachlorophenol	0	ug/L	6.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		n-octadecane	0	ug/L	6.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Phenanthrene	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Anthracene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		carbazole	0	ug/L	6.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Fluoranthene	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Chrysene-d12	50.0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Benzidine	0	ug/L	6.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Pyrene	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Chrysene	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Perylene-D12	50.0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Hexachloroethane	0	ug/L	
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		2,3-Dichloroaniline	0	ug/L	
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Diethylphthalate	0	ug/L	
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Benzo[b]fluoranthene	0	ug/L	
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Benzo[k]fluoranthene	0	ug/L	
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		Benzo[ghi]perylene	0	ug/L	
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$625		TOTAL AMOUNT	692	ug/L	
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$ICP		Aluminum	0.00	mg/L	0.348
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$ICP		Antimony	0.00	mg/L	0.006
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$ICP		Arsenic	0.0418	mg/L	0.012
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$ICP		Barium	0.0416	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$ICP	Calcium	34.9	mg/L	0.066
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$ICP	Chromium	0.00	mg/L	0.006
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$ICP	Copper	0.00	mg/L	0.006
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$ICP	Iron	0.200	mg/L	0.018
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$ICP	Lead	0.0107	mg/L	0.006
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$ICP	Magnesium	22.1	mg/L	0.021
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$ICP	Manganese	0.124	mg/L	0.009
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$ICP	Nickel	0.00	mg/L	0.003
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$ICP	Selenium	0.0214	mg/L	0.009
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$ICP	Silver	0.00	mg/L	0.003
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$ICP	Strontium	0.251	mg/L	0.009
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$ICP	Thallium	0.00	mg/L	0.012
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$ICP	Tin	0.00	mg/L	0.006
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	\$ICP	Zinc	0.00889	mg/L	0.006
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	HARD	Hardness as CaCO3	168	mg/l	
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	HG1631	Mercury (Low Level)	2.34	ng/L	0.5
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	E-COLI	E.coli (Colilert)	93	MPN	
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	NO2	Nitrite as N	0.0216	mg/l	0.005
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	CHLOROPHYLL	Chlorophyll	130	mg/m3	1.00
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	SO4	Sulfate	58.0	mg/L	12.5
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	CL	Chloride	92.4	mg/L	1.00
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	BOD	Biochemical Oxygen Demand	8	mg/L	2
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	SSC	Suspended Sediment Concentration	22.0	mg/L	5.0
AC04655	3261-06	Little Miami River	6 (LM08)	8/1/2012	11:50	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	TSS	Tot. Suspended Solids	28	mg/L	2
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	COD	COD	30	mg/L	
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	TDS	Total Dissolved Solids	280	mg/L	
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	CBOD	Carbonaceous Biochemical Oxygen Demand	8	mg/L	2
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	MF_CF	Fecal Coliform, Membrane Filter	86	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Bromochloromethane	50.0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Chloromethane	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Vinyl Chloride	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Bromomethane	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Chloroethane	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Acrolein	0	ug/L	100.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Acrylonitrile	0	ug/L	100.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Methylene Chloride	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Chloroform	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		1,2-Dichloroethane-d4	47.9	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Benzene	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Trichloroethene	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Bromodichloromethane	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Dibromochloromethane	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Bromoform	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Tetrachloroethene	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Toluene	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Toluene-d8	50.1	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Chlorobenzene	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Ethylbenzene	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Bromofluorobenzene	60.0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		2-Propanone	0	ug/L	60
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		2-Butanone	0	ug/L	60
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		Tetrahydrofuran	0	ug/L	
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		2-chloroethoxy ethene	0	ug/L	
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$624		TOTAL AMOUNT	308	ug/L	
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	NH3		Ammonia as N	0	mg/L	0.5
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	NO3NO2		Nitrate + Nitrite	0	mg/L	0.5
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	TKN		Total Kjeldahl Nitrogen	1.901	mg/L	0.5
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	TKP		Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	O&G		O&G Total	0.98	mg/L	5
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	CN		Cyanide	0.0024	mg/L	0.005
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	CN_A		Cyanide Amenable	AE	mg/L	0.005
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	CN_F		Cyanide Free	0.0000	mg/L	0.005
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		pyridine	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		2-Fluorophenol	3.6	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		aniline	0	ug/L	6.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Phenol-d6	13.5	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Phenol	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		2-Chlorophenol	0	ug/L	6.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		n-decane	0	ug/L	6.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		o-cresol	0	ug/L	6.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		acetophenone	0	ug/L	6.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	Hexachloroethane	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	Nitrobenzene-d5	82.0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	p-cresol	0	ug/L	6.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	Nitrobenzene	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	Isophorone	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	Decafluorobiphenyl	80.2	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	2-Nitrophenol	0	ug/L	6.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	Naphthalene	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	1-Fluoronaphthalene	82.0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	alpha terpineol	0	ug/L	6.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	Dimethyl phthalate	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	Acenaphthylene	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	Acenaphthene	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	4-Nitrophenol	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	Diethyl phthalate	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	Fluorene	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625	Phenanthrene-D10	50.0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		2,4,6-Tribromophenol	14.6	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Hexachlorobenzene	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Pentachlorophenol	0	ug/L	6.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		n-octadecane	0	ug/L	6.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Phenanthrene	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Anthracene	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		carbazole	0	ug/L	6.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Fluoranthene	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Chrysene-d12	50.0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Benzidine	0	ug/L	6.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Pyrene	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Chrysene	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Perylene-D12	50.0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Hexachloroethane	0	ug/L	
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		2,3-Dichloroaniline	0	ug/L	
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Diethylphthalate	0	ug/L	
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Benzo[b]fluoranthene	0	ug/L	
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Benzo[k]fluoranthene	0	ug/L	
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		Benzo[ghi]perylene	0	ug/L	
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$625		TOTAL AMOUNT	576	ug/L	
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$ICP		Aluminum	0.00	mg/L	0.348
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$ICP		Antimony	0.00	mg/L	0.006
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$ICP		Arsenic	0.0552	mg/L	0.012
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$ICP		Barium	0.0467	mg/L	0.003
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$ICP		Beryllium	0.00	mg/L	0.009
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$ICP		Cadmium	0.00	mg/L	0.012
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$ICP		Calcium	36.8	mg/L	0.066
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$ICP		Chromium	0.00	mg/L	0.006
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$ICP		Cobalt	0.00	mg/L	0.006
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$ICP		Copper	0.00	mg/L	0.006
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$ICP		Iron	0.231	mg/L	0.018
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$ICP		Lead	0.00843	mg/L	0.006
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$ICP		Magnesium	23.4	mg/L	0.021
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$ICP		Manganese	0.124	mg/L	0.009
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$ICP		Nickel	0.00	mg/L	0.003
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$ICP		Selenium	0.00	mg/L	0.009
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$ICP		Silver	0.00	mg/L	0.003
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$ICP		Strontium	0.267	mg/L	0.009
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$ICP		Thallium	0.0199	mg/L	0.012
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$ICP		Tin	0.00	mg/L	0.006
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$ICP		Vanadium	0.00	mg/L	0.018
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	\$ICP		Zinc	0.00896	mg/L	0.006
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	HARD		Hardness as CaCO3	190	mg/l	
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	HG1631		Mercury (Low Level)	1.75	ng/L	0.5
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	E-COLI		E.coli (Colilert)	71	MPN	
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	NO2		Nitrite as N	0.0195	mg/l	0.005
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	CHLOROPHYLL		Chlorophyll	177	mg/m3	1.00



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	SO4	Sulfate	54.8	mg/L	12.5
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	CL	Chloride	91.8	mg/L	1.00
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	BOD	Biochemical Oxygen Demand	7	mg/L	2
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	SSC	Suspended Sediment Concentration	23.0	mg/L	5.0
AC04656	3261-07	Little Miami River	7 (LM06)	8/1/2012	12:10	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	TSS	Tot. Suspended Solids	36	mg/L	2
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	COD	COD	36	mg/L	
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	TDS	Total Dissolved Solids	360	mg/L	
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	CBOD	Carbonaceous Biochemical Oxygen Demand	8	mg/L	2
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	MF_CF	Fecal Coliform, Membrane Filter	50	CFU/100mL	
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624	Bromochloromethane	50.0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624	Chloromethane	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624	Vinyl Chloride	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624	Bromomethane	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624	Chloroethane	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624	Acrolein	0	ug/L	100.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624	Acrylonitrile	0	ug/L	100.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624	Methylene Chloride	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624	Chloroform	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624	1,2-Dichloroethane-d4	47.9	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624	Benzene	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624	Trichloroethene	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624	Bromodichloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624		Dibromochloromethane	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624		Bromoform	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624		Tetrachloroethene	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624		Toluene	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624		Toluene-d8	50.1	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624		Chlorobenzene	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624		Ethylbenzene	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624		Bromofluorobenzene	60.2	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624		2-Propanone	0	ug/L	60
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624		2-Butanone	0	ug/L	60
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624		Tetrahydrofuran	0	ug/L	
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624		2-chloroethoxy ethene	0	ug/L	
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$624		TOTAL AMOUNT	308	ug/L	
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	NH3		Ammonia as N	0	mg/L	0.5
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	NO3NO2		Nitrate + Nitrite	0	mg/L	0.5
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	TKN		Total Kjeldahl Nitrogen	1.948	mg/L	0.5
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	TKP		Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	O&G		O&G Total	0.26	mg/L	5
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	CN		Cyanide	0.0023	mg/L	0.005
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	CN_A		Cyanide Amenable	AE	mg/L	0.005
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	CN_F		Cyanide Free	0.0000	mg/L	0.005
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625		pyridine	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625		2-Fluorophenol	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	aniline	0	ug/L	6.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Phenol-d6	9.5	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Phenol	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	2-Chlorophenol	0	ug/L	6.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	n-decane	0	ug/L	6.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	o-cresol	0	ug/L	6.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	acetophenone	0	ug/L	6.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Hexachloroethane	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Nitrobenzene-d5	76.4	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	p-cresol	0	ug/L	6.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Nitrobenzene	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Isophorone	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Decafluorobiphenyl	71.5	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	2-Nitrophenol	0	ug/L	6.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Naphthalene	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	1-Fluoronaphthalene	74.8	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	alpha terpineol	0	ug/L	6.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Dimethyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Acenaphthylene	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Acenaphthene	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	4-Nitrophenol	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Diethyl phthalate	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Fluorene	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	2,4,6-Tribromophenol	3.7	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Hexachlorobenzene	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Pentachlorophenol	0	ug/L	6.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	n-octadecane	0	ug/L	6.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Phenanthrene	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Anthracene	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	carbazole	0	ug/L	6.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Fluoranthene	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Chrysene-d12	50.0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Benzidine	0	ug/L	6.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Pyrene	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Chrysene	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625	Perylene-D12	50.0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625		Hexachloroethane	0	ug/L	
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625		2,3-Dichloroaniline	0	ug/L	
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625		Diethylphthalate	0	ug/L	
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625		Benzo[b]fluoranthene	0	ug/L	
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625		Benzo[k]fluoranthene	0	ug/L	
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625		Benzo[ghi]perylene	0	ug/L	
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$625		TOTAL AMOUNT	538	ug/L	
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$ICP		Aluminum	0.00	mg/L	0.348
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$ICP		Antimony	0.00	mg/L	0.006
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$ICP		Arsenic	0.0207	mg/L	0.012
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$ICP		Barium	0.0454	mg/L	0.003
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$ICP		Beryllium	0.00	mg/L	0.009
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$ICP		Cadmium	0.00	mg/L	0.012
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$ICP		Calcium	36.7	mg/L	0.066
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$ICP		Chromium	0.00	mg/L	0.006
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$ICP		Cobalt	0.00	mg/L	0.006
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$ICP		Copper	0.00	mg/L	0.006
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$ICP		Iron	0.206	mg/L	0.018
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$ICP		Lead	0.00952	mg/L	0.006
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$ICP		Magnesium	23.7	mg/L	0.021
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$ICP		Manganese	0.0941	mg/L	0.009
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$ICP		Nickel	0.00	mg/L	0.003
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$ICP		Selenium	0.0440	mg/L	0.009
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$ICP		Silver	0.00	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$ICP	Strontium	0.271	mg/L	0.009
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$ICP	Thallium	0.00	mg/L	0.012
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$ICP	Tin	0.00	mg/L	0.006
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	\$ICP	Zinc	0.00956	mg/L	0.006
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	HARD	Hardness as CaCO3	180	mg/l	
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	HG1631	Mercury (Low Level)	1.89	ng/L	0.5
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	E-COLI	E.coli (Colilert)	102	MPN	
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	NO2	Nitrite as N	0.0178	mg/l	0.005
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	CHLOROPHYLL	Chlorophyll	AE	mg/m3	1.00
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	SO4	Sulfate	57.5	mg/L	12.5
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	CL	Chloride	95.7	mg/L	1.00
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	BOD	Biochemical Oxygen Demand	8	mg/L	2
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	SSC	Suspended Sediment Concentration	28.0	mg/L	5.0
AC04657	3261-08	Little Miami River	8 (LM05)	8/1/2012	12:20	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	TSS	Tot. Suspended Solids	28	mg/L	2
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	COD	COD	31	mg/L	
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	TDS	Total Dissolved Solids	320	mg/L	
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	CBOD	Carbonaceous Biochemical Oxygen Demand	7	mg/L	2
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	MF_CF	Fecal Coliform, Membrane Filter	57	CFU/100mL	
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624	Chloromethane	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624	Bromomethane	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624	Chloroethane	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624	Acrolein	0	ug/L	100.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624	Acrylonitrile	0	ug/L	100.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624	Methylene Chloride	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624	Chloroform	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		1,2-Dichloroethane-d4	47.9	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		Benzene	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		Trichloroethene	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		Bromoform	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		Toluene	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		Toluene-d8	50.0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		Chlorobenzene	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		Ethylbenzene	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		Bromofluorobenzene	60.5	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		2-Propanone	0	ug/L	60
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		2-Butanone	0	ug/L	60
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		Tetrahydrofuran	0	ug/L	
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$624		TOTAL AMOUNT	308	ug/L	
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	NH3		Ammonia as N	0	mg/L	0.5
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	NO3NO2		Nitrate + Nitrite	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	TKN	Total Kjeldahl Nitrogen	1.932	mg/L	0.5
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	O&G	O&G Total	0.85	mg/L	5
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	CN	Cyanide	0.0012	mg/L	0.005
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	CN_A	Cyanide Amenable	AE	mg/L	0.005
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	CN_F	Cyanide Free	0.0000	mg/L	0.005
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	pyridine	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	2-Fluorophenol	52.8	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	aniline	0	ug/L	6.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	Phenol-d6	38.3	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	Phenol	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	2-Chlorophenol	0	ug/L	6.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	n-decane	0	ug/L	6.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	o-cresol	0	ug/L	6.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	acetophenone	0	ug/L	6.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	Hexachloroethane	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	Nitrobenzene-d5	81.6	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	p-cresol	0	ug/L	6.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	Nitrobenzene	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	Isophorone	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	Decafluorobiphenyl	78.3	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	2-Nitrophenol	0	ug/L	6.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625	Naphthalene	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		1-Fluoronaphthalene	80.8	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		alpha terpineol	0	ug/L	6.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Acenaphthylene	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Acenaphthene	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		4-Nitrophenol	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Diethyl phthalate	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Fluorene	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		2,4,6-Tribromophenol	84.7	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Hexachlorobenzene	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Pentachlorophenol	0	ug/L	6.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		n-octadecane	0	ug/L	6.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Phenanthrene	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Anthracene	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		carbazole	0	ug/L	6.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Fluoranthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Benzidine	0	ug/L	6.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Pyrene	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Chrysene	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Hexachloroethane	0	ug/L	
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Diethylphthalate	0	ug/L	
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$625		TOTAL AMOUNT	716	ug/L	
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$ICP		Aluminum	0.00	mg/L	0.348
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$ICP		Antimony	0.00	mg/L	0.006
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$ICP		Arsenic	0.0781	mg/L	0.012
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$ICP		Barium	0.0491	mg/L	0.003
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$ICP		Beryllium	0.00	mg/L	0.009
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$ICP		Cadmium	0.00	mg/L	0.012
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$ICP		Calcium	38.5	mg/L	0.066

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$ICP	Chromium	0.00	mg/L	0.006
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$ICP	Copper	0.00	mg/L	0.006
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$ICP	Iron	0.191	mg/L	0.018
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$ICP	Lead	0.0156	mg/L	0.006
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$ICP	Magnesium	23.7	mg/L	0.021
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$ICP	Manganese	0.0826	mg/L	0.009
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$ICP	Nickel	0.00	mg/L	0.003
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$ICP	Selenium	0.0427	mg/L	0.009
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$ICP	Silver	0.00	mg/L	0.003
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$ICP	Strontium	0.278	mg/L	0.009
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$ICP	Thallium	0.0137	mg/L	0.012
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$ICP	Tin	0.00	mg/L	0.006
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	\$ICP	Zinc	0.00890	mg/L	0.006
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	HARD	Hardness as CaCO3	176	mg/l	
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	HG1631	Mercury (Low Level)	1.62	ng/L	0.5
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	E-COLI	E.coli (Colilert)	58	MPN	
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	SSC	Suspended Sediment Concentration	29.0	mg/L	5.0
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	BOD	Biochemical Oxygen Demand	7	mg/L	2
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	CL	Chloride	96.2	mg/L	1.00
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	SO4	Sulfate	56.0	mg/L	12.5
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	CHLOROPHYLL	Chlorophyll	220	mg/m3	1.00
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	NO2	Nitrite as N	0.0119	mg/l	0.005
AC04658	3261-09	Little Miami River	9 (LM02)	8/1/2012	13:30	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	TSS	Tot. Suspended Solids	20	mg/L	2
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	COD	COD	10	mg/L	
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	TDS	Total Dissolved Solids	180	mg/L	
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	CBOD	Carbonaceous Biochemical Oxygen Demand	3	mg/L	2
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	MF_CF	Fecal Coliform, Membrane Filter	250	CFU/100mL	
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624	Bromochloromethane	50.0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624	Chloromethane	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624	Vinyl Chloride	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		Bromomethane	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		Chloroethane	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		Acrolein	0	ug/L	100.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		Acrylonitrile	0	ug/L	100.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		Methylene Chloride	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		Chloroform	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		1,2-Dichloroethane-d4	48.6	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		Benzene	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		Trichloroethene	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		Bromodichloromethane	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		Dibromochloromethane	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		Bromoform	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		Tetrachloroethene	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		Toluene	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		Toluene-d8	50.1	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		Chlorobenzene	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		Ethylbenzene	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		Bromofluorobenzene	59.6	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		2-Propanone	0	ug/L	60
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		2-Butanone	0	ug/L	60
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		Tetrahydrofuran	0	ug/L	
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		2-chloroethoxy ethene	0	ug/L	
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$624		TOTAL AMOUNT	308	ug/L	
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	NH3		Ammonia as N	0	mg/L	0.5
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	NO3NO2		Nitrate + Nitrite	2.32	mg/L	0.5
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	TKN		Total Kjeldahl Nitrogen	1.160	mg/L	0.5
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	TKP		Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	O&G		O&G Total	0	mg/L	5
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	CN		Cyanide	0.0034	mg/L	0.005
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	CN_A		Cyanide Amenable	AE	mg/L	0.005
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	CN_F		Cyanide Free	0.0000	mg/L	0.005
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		pyridine	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		2-Fluorophenol	47.2	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		aniline	0	ug/L	6.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Phenol-d6	34.6	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Phenol	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		2-Chlorophenol	0	ug/L	6.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		n-decane	0	ug/L	6.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		o-cresol	0	ug/L	6.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		acetophenone	0	ug/L	6.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Hexachloroethane	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Nitrobenzene-d5	73.9	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		p-cresol	0	ug/L	6.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Nitrobenzene	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Isophorone	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Decafluorobiphenyl	68.9	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		2-Nitrophenol	0	ug/L	6.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Naphthalene	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		1-Fluoronaphthalene	77.0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		alpha terpineol	0	ug/L	6.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Dimethyl phthalate	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Acenaphthylene	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Acenaphthene	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		4-Nitrophenol	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Diethyl phthalate	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Fluorene	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		2,4,6-Tribromophenol	72.3	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Hexachlorobenzene	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Pentachlorophenol	0	ug/L	6.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		n-octadecane	0	ug/L	6.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Phenanthrene	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Anthracene	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		carbazole	0	ug/L	6.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Fluoranthene	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Chrysene-d12	50.0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Benzidine	0	ug/L	6.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Pyrene	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Chrysene	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Perylene-D12	50.0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Hexachloroethane	0	ug/L	
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		2,3-Dichloroaniline	0	ug/L	
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Diethylphthalate	0	ug/L	
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Benzo[b]fluoranthene	0	ug/L	
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Benzo[k]fluoranthene	0	ug/L	
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Analysis Code	Analysis Description	Results	Units	MDL
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625	Benzo[ghi]perylene	0	ug/L	
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$625	TOTAL AMOUNT	674	ug/L	
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$ICP	Aluminum	0.677	mg/L	0.348
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$ICP	Antimony	0.0126	mg/L	0.006
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$ICP	Arsenic	0.0338	mg/L	0.012
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$ICP	Barium	0.0351	mg/L	0.003
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$ICP	Calcium	49.8	mg/L	0.066
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$ICP	Chromium	0.00	mg/L	0.006
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$ICP	Copper	0.00	mg/L	0.006
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$ICP	Iron	1.19	mg/L	0.018
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$ICP	Lead	0.0124	mg/L	0.006
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$ICP	Magnesium	10.6	mg/L	0.021
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$ICP	Manganese	0.155	mg/L	0.009
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$ICP	Nickel	0.00	mg/L	0.003
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$ICP	Selenium	0.0556	mg/L	0.009
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$ICP	Silver	0.00	mg/L	0.003
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$ICP	Strontium	0.152	mg/L	0.009
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$ICP	Thallium	0.00	mg/L	0.012
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$ICP	Tin	0.00	mg/L	0.006
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	\$ICP	Zinc	0.0137	mg/L	0.006
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	HARD	Hardness as CaCO3	160	mg/l	
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	HG1631	Mercury (Low Level)	3.09	ng/L	0.5
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	E-COLI	E.coli (Colilert)	365	MPN	
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	SSC	Suspended Sediment Concentration	24.0	mg/L	5.0
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	CL	Chloride	32.2	mg/L	1.00
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	SO4	Sulfate	37.0	mg/L	12.5
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	NO2	Nitrite as N	0.0146	mg/l	0.005
AC04659	3261-10	Little Miami River	10 (LM10)	8/1/2012	11:15	NO3	Nitrate as N (calculated)	2.3054	mg/l	
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	MF_CF	Fecal Coliform, Membrane Filter	3700	CFU/100mL	
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	E-COLI	E.coli (Colilert)	1986	MPN	
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	TDS	Total Dissolved Solids	750	mg/L	
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	SO4	Sulfate	162	mg/L	25.0
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	CL	Chloride	297	mg/L	10.0
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	TSS	Tot. Suspended Solids	7	mg/L	2
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	SSC	Suspended Sediment Concentration	5.0	mg/L	5.0
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	HARD	Hardness as CaCO3	390	mg/l	
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	COD	COD	29	mg/L	
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1410	uS/cm	
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	TEMP_FLD	Temperature (Field) Celsius	21.26	Deg C	
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	PH_FLD	pH (Field)	7.80	S.U.	
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	DO_FLD	Dissolved Oxygen (field) mg/L	7.32	mg/l	
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	1515	uS/cm	
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	\$ICP	Aluminum	0.00	mg/L	0.348
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	\$ICP	Antimony	0.00672	mg/L	0.006
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	\$ICP	Arsenic	0.0532	mg/L	0.012
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	\$ICP	Barium	0.140	mg/L	0.003
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	\$ICP	Calcium	112	mg/L	0.066
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	\$ICP	Chromium	0.00	mg/L	0.006
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	\$ICP	Copper	0.00681	mg/L	0.006
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	\$ICP	Iron	0.613	mg/L	0.018
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	\$ICP	Lead	0.0231	mg/L	0.006
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	\$ICP	Magnesium	30.7	mg/L	0.021
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	\$ICP	Manganese	0.0356	mg/L	0.009
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	\$ICP	Nickel	0.00315	mg/L	0.003
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	\$ICP	Selenium	0.126	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	\$ICP	Silver	0.00	mg/L	0.003
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	\$ICP	Strontium	0.447	mg/L	0.009
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	\$ICP	Thallium	0.0122	mg/L	0.012
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	\$ICP	Tin	0.00	mg/L	0.006
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	\$ICP	Zinc	0.0234	mg/L	0.006
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	PB_FU	Lead by Furnace	0.170	ug/L	0.5
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	AS_FU	Arsenic by Furnace	2.752	ug/L	1.0
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	CU_FU	Copper by Furnace	7.9	ug/L	1
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	NH3	Ammonia as N	0	mg/L	0.5
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	NO3NO2	Nitrate + Nitrite	0.644	mg/L	0.5
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	TKN	Total Kjeldahl Nitrogen	0.9530	mg/L	0.5
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	NO2	Nitrite as N	0.1295	mg/l	0.005
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	NO3	Nitrate as N (calculated)	0.5145	mg/l	
AC04717	LM71	Little Miami Watershed	71	8/2/2012	08:15	CHLOROPHYLL	Chlorophyll	9.08	mg/m3	1.00
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	MF_CF	Fecal Coliform, Membrane Filter	1300	CFU/100mL	
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	E-COLI	E.coli (Colilert)	1203	MPN	
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	TDS	Total Dissolved Solids	590	mg/L	
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	SO4	Sulfate	136	mg/L	25.0
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	CL	Chloride	201	mg/L	5.0
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	TSS	Tot. Suspended Solids	5	mg/L	2
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	HARD	Hardness as CaCO3	272	mg/l	
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	COD	COD	36	mg/L	
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1080	uS/cm	
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	TEMP_FLD	Temperature (Field) Celsius	23.82	Deg C	
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	PH_FLD	pH (Field)	7.21	S.U.	
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	DO_FLD	Dissolved Oxygen (field) mg/L	1.06	mg/l	
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	1106	uS/cm	
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	\$ICP	Aluminum	0.00	mg/L	0.348

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	\$ICP	Antimony	0.0189	mg/L	0.006
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	\$ICP	Arsenic	0.176	mg/L	0.012
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	\$ICP	Barium	0.0740	mg/L	0.003
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	\$ICP	Calcium	67.4	mg/L	0.066
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	\$ICP	Chromium	0.00	mg/L	0.006
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	\$ICP	Copper	0.00838	mg/L	0.006
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	\$ICP	Iron	0.357	mg/L	0.018
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	\$ICP	Lead	0.0163	mg/L	0.006
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	\$ICP	Magnesium	29.3	mg/L	0.021
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	\$ICP	Manganese	0.128	mg/L	0.009
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	\$ICP	Nickel	0.00497	mg/L	0.003
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	\$ICP	Selenium	0.0614	mg/L	0.009
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	\$ICP	Silver	0.00	mg/L	0.003
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	\$ICP	Strontium	0.388	mg/L	0.009
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	\$ICP	Thallium	0.00	mg/L	0.012
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	\$ICP	Tin	0.00	mg/L	0.006
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	\$ICP	Zinc	0.0213	mg/L	0.006
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	PB_FU	Lead by Furnace	0.232	ug/L	0.5
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	AS_FU	Arsenic by Furnace	3.388	ug/L	1.0
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	CU_FU	Copper by Furnace	7.4	ug/L	1
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	NH3	Ammonia as N	0	mg/L	0.5
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	TKN	Total Kjeldahl Nitrogen	1.134	mg/L	0.5
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	NO2	Nitrite as N	0.0078	mg/l	0.005
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04718	LM72	Little Miami Watershed	72	8/2/2012	08:40	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	MF_CF	Fecal Coliform, Membrane Filter	207	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	E-COLI	E.coli (Colilert)	192	MPN	
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	TDS	Total Dissolved Solids	600	mg/L	
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	SO4	Sulfate	130	mg/L	25.0
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	CL	Chloride	176	mg/L	5.0
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	TSS	Tot. Suspended Solids	4	mg/L	2
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	HARD	Hardness as CaCO3	430	mg/l	
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	COD	COD	16	mg/L	
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1075	uS/cm	
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	TEMP_FLD	Temperature (Field) Celsius	22.28	Deg C	
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	PH_FLD	pH (Field)	8.02	S.U.	
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	DO_FLD	Dissolved Oxygen (field) mg/L	7.77	mg/l	
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	1134	uS/cm	
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	\$ICP	Aluminum	0.00	mg/L	0.348
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	\$ICP	Antimony	0.0139	mg/L	0.006
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	\$ICP	Arsenic	0.0572	mg/L	0.012
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	\$ICP	Barium	0.0738	mg/L	0.003
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	\$ICP	Calcium	136	mg/L	0.066
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	\$ICP	Chromium	0.00	mg/L	0.006
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	\$ICP	Copper	0.00974	mg/L	0.006
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	\$ICP	Iron	0.0867	mg/L	0.018
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	\$ICP	Lead	0.0254	mg/L	0.006
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	\$ICP	Magnesium	32.1	mg/L	0.021
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	\$ICP	Manganese	0.0138	mg/L	0.009
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	\$ICP	Nickel	0.00	mg/L	0.003
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	\$ICP	Selenium	0.159	mg/L	0.009
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	\$ICP	Silver	0.00	mg/L	0.003
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	\$ICP	Strontium	0.410	mg/L	0.009
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	\$ICP	Thallium	0.0271	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	\$ICP	Tin	0.00	mg/L	0.006
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	\$ICP	Zinc	0.0220	mg/L	0.006
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	AS_FU	Arsenic by Furnace	5.145	ug/L	1.0
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	CU_FU	Copper by Furnace	5.8	ug/L	1
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	NH3	Ammonia as N	0	mg/L	0.5
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	NO3NO2	Nitrate + Nitrite	1.04	mg/L	0.5
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	TKN	Total Kjeldahl Nitrogen	0.5808	mg/L	0.5
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	NO2	Nitrite as N	0.0351	mg/l	0.005
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	NO3	Nitrate as N (calculated)	1.0049	mg/l	
AC04719	LM76	Little Miami Watershed	76	8/2/2012	09:10	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	MF_CF	Fecal Coliform, Membrane Filter	150	CFU/100mL	
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	E-COLI	E.coli (Colilert)	79	MPN	
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	TDS	Total Dissolved Solids	510	mg/L	
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	SO4	Sulfate	114	mg/L	25.0
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	CL	Chloride	156	mg/L	5.0
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	TSS	Tot. Suspended Solids	4	mg/L	2
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	HARD	Hardness as CaCO3	308	mg/l	
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	COD	COD	30	mg/L	
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	955	uS/cm	
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	TEMP_FLD	Temperature (Field) Celsius	24.61	Deg C	
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	PH_FLD	pH (Field)	7.39	S.U.	
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	DO_FLD	Dissolved Oxygen (field) mg/L	6.69	mg/l	
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	962	uS/cm	
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	\$ICP	Antimony	0.00	mg/L	0.006
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	\$ICP	Arsenic	0.0451	mg/L	0.012
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	\$ICP	Barium	0.0563	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	\$ICP	Calcium	85.1	mg/L	0.066
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	\$ICP	Chromium	0.00	mg/L	0.006
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	\$ICP	Copper	0.00	mg/L	0.006
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	\$ICP	Iron	0.129	mg/L	0.018
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	\$ICP	Lead	0.0204	mg/L	0.006
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	\$ICP	Magnesium	26.4	mg/L	0.021
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	\$ICP	Manganese	0.0355	mg/L	0.009
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	\$ICP	Nickel	0.00	mg/L	0.003
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	\$ICP	Selenium	0.0593	mg/L	0.009
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	\$ICP	Silver	0.00	mg/L	0.003
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	\$ICP	Strontium	0.324	mg/L	0.009
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	\$ICP	Thallium	0.00	mg/L	0.012
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	\$ICP	Tin	0.00	mg/L	0.006
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	\$ICP	Zinc	0.0111	mg/L	0.006
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	PB_FU	Lead by Furnace	0.338	ug/L	0.5
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	AS_FU	Arsenic by Furnace	2.851	ug/L	1.0
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	CU_FU	Copper by Furnace	3.7	ug/L	1
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	NH3	Ammonia as N	0	mg/L	0.5
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	TKN	Total Kjeldahl Nitrogen	0.6692	mg/L	0.5
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	NO2	Nitrite as N	0.0132	mg/l	0.005
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04720	LM77	Little Miami Watershed	77	8/2/2012	09:30	CHLOROPHYLL	Chlorophyll	16.6	mg/m3	1.00
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	71	CFU/100mL	
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	E-COLI	E.coli (Colilert)	67	MPN	
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	TDS	Total Dissolved Solids	290	mg/L	
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	BOD	Biochemical Oxygen Demand	2	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	SO4	Sulfate	71.5	mg/L	25.0
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	CL	Chloride	77.5	mg/L	1.00
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	TSS	Tot. Suspended Solids	2	mg/L	2
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	HARD	Hardness as CaCO3	208	mg/l	
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	COD	COD	26	mg/L	
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	628	uS/cm	
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	24.13	Deg C	
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	PH_FLD	pH (Field)	7.42	S.U.	
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	3.75	mg/l	
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	639	uS/cm	
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	\$ICP	Antimony	0.0220	mg/L	0.006
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	\$ICP	Arsenic	0.0260	mg/L	0.012
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	\$ICP	Barium	0.0386	mg/L	0.003
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	\$ICP	Calcium	67.5	mg/L	0.066
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	\$ICP	Chromium	0.00	mg/L	0.006
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	\$ICP	Copper	0.00	mg/L	0.006
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	\$ICP	Iron	0.0472	mg/L	0.018
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	\$ICP	Lead	0.0169	mg/L	0.006
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	\$ICP	Magnesium	14.7	mg/L	0.021
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	\$ICP	Manganese	0.0186	mg/L	0.009
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	\$ICP	Nickel	0.00	mg/L	0.003
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	\$ICP	Selenium	0.156	mg/L	0.009
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	\$ICP	Silver	0.00	mg/L	0.003
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	\$ICP	Strontium	0.267	mg/L	0.009
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	\$ICP	Thallium	0.0665	mg/L	0.012
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	\$ICP	Tin	0.00	mg/L	0.006
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	\$ICP	Zinc	0.0153	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	AS_FU	Arsenic by Furnace	3.251	ug/L	1.0
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	CU_FU	Copper by Furnace	3.7	ug/L	1
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	NO3NO2	Nitrate + Nitrite	3.86	mg/L	0.5
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	TKN	Total Kjeldahl Nitrogen	0.4735	mg/L	0.5
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	NO2	Nitrite as N	0.0048	mg/l	0.005
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	NO3	Nitrate as N (calculated)	3.8552	mg/l	
AC04721	LM98	Little Miami Watershed	98	8/2/2012	10:30	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	MF_CF	Fecal Coliform, Membrane Filter	150	CFU/100mL	
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	E-COLI	E.coli (Colilert)	219	MPN	
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	TDS	Total Dissolved Solids	350	mg/L	
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	SO4	Sulfate	67.5	mg/L	25.0
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	CL	Chloride	87.5	mg/L	1.00
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	TSS	Tot. Suspended Solids	2	mg/L	2
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	HARD	Hardness as CaCO3	236	mg/l	
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	COD	COD	15	mg/L	
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	701	uS/cm	
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	TEMP_FLD	Temperature (Field) Celsius	24.79	Deg C	
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	PH_FLD	pH (Field)	7.65	S.U.	
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	DO_FLD	Dissolved Oxygen (field) mg/L	7.44	mg/l	
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	704	uS/cm	
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	\$ICP	Antimony	0.0103	mg/L	0.006
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	\$ICP	Arsenic	0.0202	mg/L	0.012
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	\$ICP	Barium	0.0416	mg/L	0.003
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	\$ICP	Calcium	71.4	mg/L	0.066



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	\$ICP	Chromium	0.00	mg/L	0.006
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	\$ICP	Copper	0.00	mg/L	0.006
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	\$ICP	Iron	0.100	mg/L	0.018
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	\$ICP	Lead	0.0127	mg/L	0.006
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	\$ICP	Magnesium	15.4	mg/L	0.021
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	\$ICP	Manganese	0.0184	mg/L	0.009
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	\$ICP	Nickel	0.00	mg/L	0.003
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	\$ICP	Selenium	0.0839	mg/L	0.009
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	\$ICP	Silver	0.00	mg/L	0.003
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	\$ICP	Strontium	0.265	mg/L	0.009
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	\$ICP	Thallium	0.0555	mg/L	0.012
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	\$ICP	Tin	0.00	mg/L	0.006
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	\$ICP	Zinc	0.0102	mg/L	0.006
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	AS_FU	Arsenic by Furnace	1.863	ug/L	1.0
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	CU_FU	Copper by Furnace	2.7	ug/L	1
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	NH3	Ammonia as N	0	mg/L	0.5
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	TKN	Total Kjeldahl Nitrogen	0.5084	mg/L	0.5
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	NO2	Nitrite as N	0.0047	mg/l	0.005
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04722	LM97	Little Miami Watershed	97	8/2/2012	10:50	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	MF_CF	Fecal Coliform, Membrane Filter	1400	CFU/100mL	
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	E-COLI	E.coli (Colilert)	2420	MPN	
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	TDS	Total Dissolved Solids	700	mg/L	
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	BOD	Biochemical Oxygen Demand	8	mg/L	2
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	SO4	Sulfate	121	mg/L	50.0
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	CL	Chloride	170	mg/L	5.0
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	TSS	Tot. Suspended Solids	188	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	SSC	Suspended Sediment Concentration	68.0	mg/L	5.0
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	HARD	Hardness as CaCO3	404	mg/l	
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	COD	COD	82	mg/L	
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1077	uS/cm	
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	TEMP_FLD	Temperature (Field) Celsius	23.15	Deg C	
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	PH_FLD	pH (Field)	8.04	S.U.	
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	DO_FLD	Dissolved Oxygen (field) mg/L	8.75	mg/l	
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	1116	uS/cm	
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	\$ICP	Aluminum	1.42	mg/L	0.348
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	\$ICP	Antimony	0.0139	mg/L	0.006
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	\$ICP	Arsenic	0.368	mg/L	0.012
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	\$ICP	Barium	0.156	mg/L	0.003
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	\$ICP	Calcium	AE	mg/L	0.066
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	\$ICP	Chromium	0.00	mg/L	0.006
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	\$ICP	Cobalt	0.00995	mg/L	0.006
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	\$ICP	Copper	0.0761	mg/L	0.006
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	\$ICP	Iron	3.54	mg/L	0.018
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	\$ICP	Lead	0.0808	mg/L	0.006
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	\$ICP	Magnesium	36.2	mg/L	0.021
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	\$ICP	Manganese	0.291	mg/L	0.009
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	\$ICP	Nickel	0.0241	mg/L	0.003
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	\$ICP	Selenium	0.0824	mg/L	0.009
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	\$ICP	Silver	0.00	mg/L	0.003
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	\$ICP	Strontium	0.502	mg/L	0.009
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	\$ICP	Thallium	0.0147	mg/L	0.012
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	\$ICP	Tin	0.00	mg/L	0.006
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	\$ICP	Zinc	0.181	mg/L	0.006
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	\$ICP	Titanium	0	mg/L	
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	AS_FU	Arsenic by Furnace	1.369	ug/L	1.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	CU_FU	Copper by Furnace	60.2	ug/L	1
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	NH3	Ammonia as N	0	mg/L	0.5
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	TKN	Total Kjeldahl Nitrogen	3.013	mg/L	0.5
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	TKP	Total Kjeldahl Phosphorus	0.9669	mg/L	0.5
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	NO2	Nitrite as N	0.0145	mg/l	0.005
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04823	LM78	Little Miami Watershed	78	8/3/2012	08:30	CHLOROPHYLL	Chlorophyll	260	mg/m3	1.00
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	MF_CF	Fecal Coliform, Membrane Filter	93	CFU/100mL	
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	E-COLI	E.coli (Colilert)	55	MPN	
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	TDS	Total Dissolved Solids	570	mg/L	
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	SO4	Sulfate	124	mg/L	50.0
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	CL	Chloride	198	mg/L	5.0
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	TSS	Tot. Suspended Solids	10	mg/L	2
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	SSC	Suspended Sediment Concentration	6.0	mg/L	5.0
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	HARD	Hardness as CaCO3	320	mg/l	
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	COD	COD	32	mg/L	
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1125	uS/cm	
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	TEMP_FLD	Temperature (Field) Celsius	25.81	Deg C	
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	PH_FLD	pH (Field)	8.07	S.U.	
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	DO_FLD	Dissolved Oxygen (field) mg/L	9.93	mg/l	
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	1108	uS/cm	
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	\$ICP	Antimony	0.00	mg/L	0.006
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	\$ICP	Arsenic	0.117	mg/L	0.012
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	\$ICP	Barium	0.0698	mg/L	0.003
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	\$ICP	Calcium	AE	mg/L	0.066
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	\$ICP	Chromium	0.00	mg/L	0.006
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	\$ICP	Cobalt	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	\$ICP	Copper	0.00771	mg/L	0.006
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	\$ICP	Iron	0.125	mg/L	0.018
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	\$ICP	Lead	0.0137	mg/L	0.006
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	\$ICP	Magnesium	30.1	mg/L	0.021
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	\$ICP	Manganese	0.0269	mg/L	0.009
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	\$ICP	Nickel	0.00586	mg/L	0.003
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	\$ICP	Selenium	0.126	mg/L	0.009
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	\$ICP	Silver	0.00	mg/L	0.003
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	\$ICP	Strontium	0.390	mg/L	0.009
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	\$ICP	Thallium	0.00	mg/L	0.012
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	\$ICP	Tin	0.00	mg/L	0.006
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	\$ICP	Zinc	0.0167	mg/L	0.006
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	\$ICP	Titanium	0	mg/L	
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	AS_FU	Arsenic by Furnace	1.748	ug/L	1.0
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	CU_FU	Copper by Furnace	4.8	ug/L	1
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	NH3	Ammonia as N	0	mg/L	0.5
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	TKN	Total Kjeldahl Nitrogen	0.5214	mg/L	0.5
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	NO2	Nitrite as N	0.0038	mg/l	0.005
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04824	LM73	Little Miami Watershed	73	8/3/2012	09:00	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	MF_CF	Fecal Coliform, Membrane Filter	450	CFU/100mL	
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	E-COLI	E.coli (Colilert)	687	MPN	
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	TDS	Total Dissolved Solids	730	mg/L	
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	SO4	Sulfate	124	mg/L	25.0
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	CL	Chloride	242	mg/L	5.0
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	TSS	Tot. Suspended Solids	14	mg/L	2
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	SSC	Suspended Sediment Concentration	AA	mg/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	HARD	Hardness as CaCO3	554	mg/l	
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	COD	COD	12	mg/L	
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1250	uS/cm	
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	TEMP_FLD	Temperature (Field) Celsius	22.66	Deg C	
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	PH_FLD	pH (Field)	7.92	S.U.	
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	DO_FLD	Dissolved Oxygen (field) mg/L	9.47	mg/l	
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	1309	uS/cm	
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	\$ICP	Aluminum	0.00	mg/L	0.348
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	\$ICP	Antimony	0.0306	mg/L	0.006
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	\$ICP	Arsenic	0.0460	mg/L	0.012
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	\$ICP	Barium	0.0613	mg/L	0.003
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	\$ICP	Calcium	AE	mg/L	0.066
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	\$ICP	Chromium	0.00	mg/L	0.006
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	\$ICP	Copper	0.00	mg/L	0.006
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	\$ICP	Iron	0.143	mg/L	0.018
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	\$ICP	Lead	0.0158	mg/L	0.006
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	\$ICP	Magnesium	29.8	mg/L	0.021
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	\$ICP	Manganese	0.0537	mg/L	0.009
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	\$ICP	Nickel	0.00384	mg/L	0.003
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	\$ICP	Selenium	0.154	mg/L	0.009
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	\$ICP	Silver	0.00	mg/L	0.003
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	\$ICP	Strontium	0.444	mg/L	0.009
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	\$ICP	Thallium	0.0215	mg/L	0.012
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	\$ICP	Tin	0.00	mg/L	0.006
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	\$ICP	Zinc	0.0139	mg/L	0.006
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	\$ICP	Titanium	0	mg/L	
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	AS_FU	Arsenic by Furnace	1.703	ug/L	1.0
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	CD_FU	Cadmium by Furnace	AA	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	CU_FU	Copper by Furnace	3.9	ug/L	1
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	NH3	Ammonia as N	0	mg/L	0.5
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	TKN	Total Kjeldahl Nitrogen	0.4840	mg/L	0.5
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	NO2	Nitrite as N	0.0180	mg/l	0.005
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04825	LM74	Little Miami Watershed	74	8/3/2012	09:15	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	MF_CF	Fecal Coliform, Membrane Filter	164	CFU/100mL	
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	E-COLI	E.coli (Colilert)	167	MPN	
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	TDS	Total Dissolved Solids	600	mg/L	
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	SO4	Sulfate	121	mg/L	25.0
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	CL	Chloride	159	mg/L	4.0
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	TSS	Tot. Suspended Solids	44	mg/L	2
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	SSC	Suspended Sediment Concentration	5.0	mg/L	5.0
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	HARD	Hardness as CaCO3	322	mg/l	
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	COD	COD	9	mg/L	
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1137	uS/cm	
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	TEMP_FLD	Temperature (Field) Celsius	22.77	Deg C	
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	PH_FLD	pH (Field)	7.87	S.U.	
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	DO_FLD	Dissolved Oxygen (field) mg/L	23.92	mg/l	
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	CONDUCTIVITY	Specific Conductivity (uS/cm)	11.87	uS/cm	
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	\$ICP	Aluminum	0.00	mg/L	0.348
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	\$ICP	Antimony	0.0157	mg/L	0.006
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	\$ICP	Arsenic	0.0761	mg/L	0.012
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	\$ICP	Barium	0.0742	mg/L	0.003
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	\$ICP	Beryllium	0.00	mg/L	0.009
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	\$ICP	Cadmium	0.00	mg/L	0.012
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	\$ICP	Calcium	AE	mg/L	0.066
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	\$ICP	Chromium	0.00	mg/L	0.006
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	\$ICP	Cobalt	0.00	mg/L	0.006
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	\$ICP	Copper	0.00957	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	\$ICP	Iron	0.127	mg/L	0.018
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	\$ICP	Lead	0.0256	mg/L	0.006
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	\$ICP	Magnesium	33.1	mg/L	0.021
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	\$ICP	Manganese	0.0114	mg/L	0.009
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	\$ICP	Nickel	0.00462	mg/L	0.003
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	\$ICP	Selenium	0.136	mg/L	0.009
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	\$ICP	Silver	0.00	mg/L	0.003
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	\$ICP	Strontium	0.400	mg/L	0.009
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	\$ICP	Thallium	0.00	mg/L	0.012
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	\$ICP	Tin	0.00	mg/L	0.006
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	\$ICP	Vanadium	0.00	mg/L	0.018
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	\$ICP	Zinc	0.0192	mg/L	0.006
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	\$ICP	Titanium	0	mg/L	
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	AS_FU	Arsenic by Furnace	1.603	ug/L	1.0
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	CU_FU	Copper by Furnace	5.9	ug/L	1
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	NH3	Ammonia as N	0	mg/L	0.5
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	NO3NO2	Nitrate + Nitrite	1.98	mg/L	0.5
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	TKN	Total Kjeldahl Nitrogen	0.7333	mg/L	0.5
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	NO2	Nitrite as N	0.0075	mg/l	0.005
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	NO3	Nitrate as N (calculated)	1.9725	mg/l	
AC04826	LM75	Little Miami Watershed	75	8/3/2012	09:55	CHLOROPHYLL	Chlorophyll	15.0	mg/m3	1.00
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	375	CFU/100mL	
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	E-COLI	E.coli (Colilert)	687	MPN	
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	TDS	Total Dissolved Solids	590	mg/L	
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	SO4	Sulfate	104	mg/L	25.0
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	CL	Chloride	89.6	mg/L	1.00
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	TSS	Tot. Suspended Solids	14	mg/L	2
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	HARD	Hardness as CaCO3	498	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	COD	COD	15	mg/L	
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	887	uS/cm	
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	18.94	Deg C	
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	PH_FLD	pH (Field)	7.79	S.U.	
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	14.35	mg/l	
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	1007	uS/cm	
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	\$ICP	Antimony	0.00963	mg/L	0.006
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	\$ICP	Arsenic	0.0698	mg/L	0.012
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	\$ICP	Barium	0.0456	mg/L	0.003
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	\$ICP	Calcium	AE	mg/L	0.066
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	\$ICP	Chromium	0.00	mg/L	0.006
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	\$ICP	Copper	0.00	mg/L	0.006
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	\$ICP	Iron	0.0886	mg/L	0.018
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	\$ICP	Lead	0.0219	mg/L	0.006
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	\$ICP	Magnesium	30.0	mg/L	0.021
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	\$ICP	Manganese	0.0141	mg/L	0.009
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	\$ICP	Nickel	0.00	mg/L	0.003
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	\$ICP	Selenium	0.113	mg/L	0.009
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	\$ICP	Silver	0.00	mg/L	0.003
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	\$ICP	Strontium	0.420	mg/L	0.009
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	\$ICP	Thallium	0.0754	mg/L	0.012
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	\$ICP	Tin	0.00	mg/L	0.006
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	\$ICP	Zinc	0.0148	mg/L	0.006
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	\$ICP	Titanium	0	mg/L	
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	AS_FU	Arsenic by Furnace	1.633	ug/L	1.0
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	CU_FU	Copper by Furnace	1.5	ug/L	1



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	NO3NO2	Nitrate + Nitrite	0.738	mg/L	0.5
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	TKN	Total Kjeldahl Nitrogen	0.3545	mg/L	0.5
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	NO2	Nitrite as N	0.0064	mg/l	0.005
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	NO3	Nitrate as N (calculated)	0.7316	mg/l	
AC04827	LM79	Little Miami Watershed	79	8/3/2012	11:00	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	MF_CF	Fecal Coliform, Membrane Filter	220	CFU/100mL	
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	E-COLI	E.coli (Colilert)	161	MPN	
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	TDS	Total Dissolved Solids	150	mg/L	
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	BOD	Biochemical Oxygen Demand	7	mg/L	2
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	SO4	Sulfate	23.1	mg/L	5.0
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	CL	Chloride	26.7	mg/L	1.00
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	TSS	Tot. Suspended Solids	26	mg/L	2
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	SSC	Suspended Sediment Concentration	12.0	mg/L	5.0
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	HARD	Hardness as CaCO3	238	mg/l	
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	COD	COD	31	mg/L	
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	363	uS/cm	
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	TEMP_FLD	Temperature (Field) Celsius	24.64	Deg C	
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	PH_FLD	pH (Field)	6.75	S.U.	
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	DO_FLD	Dissolved Oxygen (field) mg/L	3.80	mg/l	
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	366	uS/cm	
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	\$ICP	Aluminum	0.00	mg/L	0.348
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	\$ICP	Antimony	0.00	mg/L	0.006
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	\$ICP	Arsenic	0.0623	mg/L	0.012
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	\$ICP	Barium	0.0282	mg/L	0.003
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	\$ICP	Calcium	AE	mg/L	0.066
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	\$ICP	Chromium	0.00	mg/L	0.006
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	\$ICP	Copper	0.00	mg/L	0.006
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	\$ICP	Iron	0.367	mg/L	0.018

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	\$ICP	Lead	0.0139	mg/L	0.006
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	\$ICP	Magnesium	6.35	mg/L	0.021
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	\$ICP	Manganese	0.266	mg/L	0.009
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	\$ICP	Nickel	0.00	mg/L	0.003
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	\$ICP	Selenium	0.0952	mg/L	0.009
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	\$ICP	Silver	0.00	mg/L	0.003
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	\$ICP	Strontium	0.152	mg/L	0.009
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	\$ICP	Thallium	0.0407	mg/L	0.012
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	\$ICP	Tin	0.00	mg/L	0.006
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	\$ICP	Zinc	0.0102	mg/L	0.006
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	\$ICP	Titanium	0	mg/L	
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	AS_FU	Arsenic by Furnace	1.604	ug/L	1.0
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	CU_FU	Copper by Furnace	3.2	ug/L	1
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	NH3	Ammonia as N	0	mg/L	0.5
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	TKN	Total Kjeldahl Nitrogen	1.294	mg/L	0.5
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	NO2	Nitrite as N	0.0054	mg/l	0.005
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04828	LM92	Little Miami Watershed	92	8/3/2012	10:45	CHLOROPHYLL	Chlorophyll	56.6	mg/m3	1.00
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	86	CFU/100mL	
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	E-COLI	E.coli (Colilert)	206	MPN	
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	TDS	Total Dissolved Solids	490	mg/L	
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	SO4	Sulfate	76.0	mg/L	25.0
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	CL	Chloride	136	mg/L	2.0
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	TSS	Tot. Suspended Solids	18	mg/L	2
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	SSC	Suspended Sediment Concentration	15.0	mg/L	5.0
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	HARD	Hardness as CaCO3	312	mg/l	
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	COD	COD	33	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	972	uS/cm	
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	26.06	Deg C	
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	PH_FLD	pH (Field)	8.07	S.U.	
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	7.91	mg/l	
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	953	uS/cm	
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	\$ICP	Antimony	0.00	mg/L	0.006
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	\$ICP	Arsenic	0.0565	mg/L	0.012
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	\$ICP	Barium	0.0845	mg/L	0.003
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	\$ICP	Calcium	AE	mg/L	0.066
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	\$ICP	Chromium	0.00	mg/L	0.006
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	\$ICP	Copper	0.00722	mg/L	0.006
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	\$ICP	Iron	0.351	mg/L	0.018
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	\$ICP	Lead	0.0277	mg/L	0.006
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	\$ICP	Magnesium	29.1	mg/L	0.021
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	\$ICP	Manganese	0.0492	mg/L	0.009
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	\$ICP	Nickel	0.00546	mg/L	0.003
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	\$ICP	Selenium	0.171	mg/L	0.009
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	\$ICP	Silver	0.00	mg/L	0.003
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	\$ICP	Strontium	0.407	mg/L	0.009
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	\$ICP	Thallium	0.00	mg/L	0.012
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	\$ICP	Tin	0.00	mg/L	0.006
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	\$ICP	Zinc	0.0202	mg/L	0.006
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	\$ICP	Titanium	0	mg/L	
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	AS_FU	Arsenic by Furnace	1.698	ug/L	1.0
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	CU_FU	Copper by Furnace	3.1	ug/L	1
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	NO3NO2	Nitrate + Nitrite	2.23	mg/L	0.5
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	TKN	Total Kjeldahl Nitrogen	0.9026	mg/L	0.5
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	NO2	Nitrite as N	0.0314	mg/l	0.005
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	NO3	Nitrate as N (calculated)	2.1986	mg/l	
AC04940	LM01	Little Miami Watershed	1	8/6/2012	10:30	CHLOROPHYLL	Chlorophyll	20.3	mg/m3	1.00
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	MF_CF	Fecal Coliform, Membrane Filter	700	CFU/100mL	
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	E-COLI	E.coli (Colilert)	93	MPN	
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	TDS	Total Dissolved Solids	440	mg/L	
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	SO4	Sulfate	58.0	mg/L	12.5
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	CL	Chloride	109	mg/L	1.00
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	TSS	Tot. Suspended Solids	20	mg/L	2
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	SSC	Suspended Sediment Concentration	15.0	mg/L	5.0
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	HARD	Hardness as CaCO3	290	mg/l	
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	COD	COD	5	mg/L	
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	886	uS/cm	
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	TEMP_FLD	Temperature (Field) Celsius	26.65	Deg C	
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	PH_FLD	pH (Field)	8.30	S.U.	
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	DO_FLD	Dissolved Oxygen (field) mg/L	8.64	mg/l	
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	859	uS/cm	
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	\$ICP	Aluminum	0.00	mg/L	0.348
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	\$ICP	Antimony	0.0123	mg/L	0.006
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	\$ICP	Arsenic	0.0407	mg/L	0.012
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	\$ICP	Barium	0.0869	mg/L	0.003
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	\$ICP	Calcium	AE	mg/L	0.066
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	\$ICP	Chromium	0.00	mg/L	0.006
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	\$ICP	Copper	0.00640	mg/L	0.006
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	\$ICP	Iron	0.278	mg/L	0.018
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	\$ICP	Lead	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	\$ICP	Magnesium	29.9	mg/L	0.021
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	\$ICP	Manganese	0.0710	mg/L	0.009
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	\$ICP	Nickel	0.00513	mg/L	0.003
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	\$ICP	Selenium	0.117	mg/L	0.009
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	\$ICP	Silver	0.00	mg/L	0.003
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	\$ICP	Strontium	0.409	mg/L	0.009
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	\$ICP	Thallium	0.00	mg/L	0.012
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	\$ICP	Tin	0.00	mg/L	0.006
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	\$ICP	Zinc	0.0154	mg/L	0.006
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	\$ICP	Titanium	0	mg/L	
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	AS_FU	Arsenic by Furnace	1.593	ug/L	1.0
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	CU_FU	Copper by Furnace	3.3	ug/L	1
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	NH3	Ammonia as N	0	mg/L	0.5
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	NO3NO2	Nitrate + Nitrite	1.11	mg/L	0.5
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	TKN	Total Kjeldahl Nitrogen	0.9860	mg/L	0.5
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	NO2	Nitrite as N	0.0278	mg/l	0.005
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	NO3	Nitrate as N (calculated)	1.0822	mg/l	
AC04941	LM02	Little Miami Watershed	2 (3261-09)	8/6/2012	10:45	CHLOROPHYLL	Chlorophyll	54.5	mg/m3	1.00
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	420	CFU/100mL	
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	E-COLI	E.coli (Colilert)	687	MPN	
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	TDS	Total Dissolved Solids	400	mg/L	
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	SO4	Sulfate	95.2	mg/L	12.5
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	CL	Chloride	69.8	mg/L	1.00
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	TSS	Tot. Suspended Solids	4	mg/L	2
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	SSC	Suspended Sediment Concentration	7.0	mg/L	5.0
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	HARD	Hardness as CaCO3	230	mg/l	
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	COD	COD	18	mg/L	
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	829	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	23.87	Deg C	
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	PH_FLD	pH (Field)	7.67	S.U.	
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	6.23	mg/l	
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	847	uS/cm	
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	\$ICP	Antimony	0.0208	mg/L	0.006
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	\$ICP	Arsenic	0.0146	mg/L	0.012
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	\$ICP	Barium	0.0435	mg/L	0.003
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	\$ICP	Calcium	AE	mg/L	0.066
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	\$ICP	Chromium	0.00	mg/L	0.006
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	\$ICP	Copper	0.0106	mg/L	0.006
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	\$ICP	Iron	0.242	mg/L	0.018
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	\$ICP	Lead	0.0210	mg/L	0.006
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	\$ICP	Magnesium	16.7	mg/L	0.021
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	\$ICP	Manganese	0.0493	mg/L	0.009
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	\$ICP	Nickel	0.00479	mg/L	0.003
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	\$ICP	Selenium	0.0614	mg/L	0.009
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	\$ICP	Silver	0.00	mg/L	0.003
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	\$ICP	Strontium	0.274	mg/L	0.009
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	\$ICP	Thallium	0.00	mg/L	0.012
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	\$ICP	Tin	0.00	mg/L	0.006
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	\$ICP	Zinc	0.0271	mg/L	0.006
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	\$ICP	Titanium	0	mg/L	
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	AS_FU	Arsenic by Furnace	2.055	ug/L	1.0
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	CU_FU	Copper by Furnace	7.8	ug/L	1
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	NO3NO2	Nitrate + Nitrite	15.24	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	TKN	Total Kjeldahl Nitrogen	0.0166	mg/L	0.5
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	TKP	Total Kjeldahl Phosphorus	1.914	mg/L	0.5
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	NO2	Nitrite as N	0.0630	mg/l	0.005
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	NO3	Nitrate as N (calculated)	15.1770	mg/l	
AC04942	LM38	Little Miami Watershed	38	8/6/2012	11:00	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	MF_CF	Fecal Coliform, Membrane Filter	164	CFU/100mL	
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	E-COLI	E.coli (Colilert)	167	MPN	
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	TDS	Total Dissolved Solids	410	mg/L	
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	BOD	Biochemical Oxygen Demand	5	mg/L	2
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	SO4	Sulfate	95.8	mg/L	12.5
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	CL	Chloride	107	mg/L	1.00
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	TSS	Tot. Suspended Solids	28	mg/L	2
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	SSC	Suspended Sediment Concentration	19.0	mg/L	5.0
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	HARD	Hardness as CaCO3	296	mg/l	
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	COD	COD	26	mg/L	
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	875	uS/cm	
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	TEMP_FLD	Temperature (Field) Celsius	27.02	Deg C	
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	PH_FLD	pH (Field)	8.36	S.U.	
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	DO_FLD	Dissolved Oxygen (field) mg/L	10.77	mg/l	
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	842	uS/cm	
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	\$ICP	Aluminum	0.00	mg/L	0.348
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	\$ICP	Antimony	0.00	mg/L	0.006
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	\$ICP	Arsenic	0.00	mg/L	0.012
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	\$ICP	Barium	0.0816	mg/L	0.003
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	\$ICP	Calcium	AE	mg/L	0.066
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	\$ICP	Chromium	0.00	mg/L	0.006
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	\$ICP	Copper	0.00	mg/L	0.006
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	\$ICP	Iron	0.328	mg/L	0.018
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	\$ICP	Lead	0.0168	mg/L	0.006
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	\$ICP	Magnesium	28.8	mg/L	0.021

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	\$ICP	Manganese	0.0936	mg/L	0.009
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	\$ICP	Nickel	0.00369	mg/L	0.003
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	\$ICP	Selenium	0.0659	mg/L	0.009
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	\$ICP	Silver	0.00	mg/L	0.003
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	\$ICP	Strontium	0.385	mg/L	0.009
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	\$ICP	Thallium	0.00	mg/L	0.012
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	\$ICP	Tin	0.00	mg/L	0.006
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	\$ICP	Zinc	0.0129	mg/L	0.006
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	\$ICP	Titanium	0	mg/L	
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	AS_FU	Arsenic by Furnace	1.783	ug/L	1.0
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	CU_FU	Copper by Furnace	2.8	ug/L	1
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	NH3	Ammonia as N	0	mg/L	0.5
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	NO3NO2	Nitrate + Nitrite	1.08	mg/L	0.5
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	TKN	Total Kjeldahl Nitrogen	1.096	mg/L	0.5
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	NO2	Nitrite as N	0.0273	mg/l	0.005
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	NO3	Nitrate as N (calculated)	1.0527	mg/l	
AC04943	LM03	Little Miami Watershed	3	8/6/2012	11:15	CHLOROPHYLL	Chlorophyll	91.8	mg/m3	1.00
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	MF_CF	Fecal Coliform, Membrane Filter	129	CFU/100mL	
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	E-COLI	E.coli (Colilert)	219	MPN	
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	TDS	Total Dissolved Solids	390	mg/L	
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	BOD	Biochemical Oxygen Demand	5	mg/L	2
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	SO4	Sulfate	65.5	mg/L	12.5
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	CL	Chloride	138	mg/L	4.0
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	TSS	Tot. Suspended Solids	6	mg/L	2
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	SSC	Suspended Sediment Concentration	14.0	mg/L	5.0
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	HARD	Hardness as CaCO3	290	mg/l	
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	COD	COD	30	mg/L	
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1146	uS/cm	
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	TEMP_FLD	Temperature (Field) Celsius	23.39	Deg C	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	PH_FLD	pH (Field)	7.10	S.U.	
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	DO_FLD	Dissolved Oxygen (field) mg/L	8.02	mg/l	
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	1182	uS/cm	
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	\$ICP	Antimony	0.00	mg/L	0.006
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	\$ICP	Arsenic	0.0356	mg/L	0.012
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	\$ICP	Barium	0.0616	mg/L	0.003
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	\$ICP	Calcium	AE	mg/L	0.066
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	\$ICP	Chromium	0.00	mg/L	0.006
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	\$ICP	Copper	0.00821	mg/L	0.006
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	\$ICP	Iron	0.330	mg/L	0.018
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	\$ICP	Lead	0.00986	mg/L	0.006
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	\$ICP	Magnesium	24.6	mg/L	0.021
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	\$ICP	Manganese	0.109	mg/L	0.009
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	\$ICP	Nickel	0.00	mg/L	0.003
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	\$ICP	Selenium	0.0738	mg/L	0.009
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	\$ICP	Silver	0.00	mg/L	0.003
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	\$ICP	Strontium	0.332	mg/L	0.009
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	\$ICP	Thallium	0.0241	mg/L	0.012
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	\$ICP	Tin	0.00	mg/L	0.006
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	\$ICP	Zinc	0.0227	mg/L	0.006
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	\$ICP	Titanium	0	mg/L	
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	AS_FU	Arsenic by Furnace	0.809	ug/L	1.0
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	CU_FU	Copper by Furnace	5.4	ug/L	1
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	NO3NO2	Nitrate + Nitrite	4.15	mg/L	0.5
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	TKN	Total Kjeldahl Nitrogen	1.985	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	TKP	Total Kjeldahl Phosphorus	0.5780	mg/L	0.5
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	NO2	Nitrite as N	0.0647	mg/l	0.005
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	NO3	Nitrate as N (calculated)	4.0853	mg/l	
AC04944	LM04	Little Miami Watershed	4	8/6/2012	11:30	CHLOROPHYLL	Chlorophyll	102	mg/m3	1.00
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	MF_CF	Fecal Coliform, Membrane Filter	136	CFU/100mL	
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	E-COLI	E.coli (Colilert)	99	MPN	
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	TDS	Total Dissolved Solids	370	mg/L	
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	BOD	Biochemical Oxygen Demand	6	mg/L	2
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	SO4	Sulfate	61.0	mg/L	12.5
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	CL	Chloride	109	mg/L	1.00
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	TSS	Tot. Suspended Solids	20	mg/L	2
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	SSC	Suspended Sediment Concentration	16.0	mg/L	5.0
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	HARD	Hardness as CaCO3	300	mg/l	
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	COD	COD	18	mg/L	
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	848	uS/cm	
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	TEMP_FLD	Temperature (Field) Celsius	27	Deg C	
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	PH_FLD	pH (Field)	8.48	S.U.	
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	DO_FLD	Dissolved Oxygen (field) mg/L	11.85	mg/l	
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	817	uS/cm	
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	\$ICP	Aluminum	0.00	mg/L	0.348
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	\$ICP	Antimony	0.00677	mg/L	0.006
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	\$ICP	Arsenic	0.0414	mg/L	0.012
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	\$ICP	Barium	0.0784	mg/L	0.003
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	\$ICP	Calcium	AE	mg/L	0.066
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	\$ICP	Chromium	0.00	mg/L	0.006
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	\$ICP	Copper	0.00	mg/L	0.006
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	\$ICP	Iron	0.216	mg/L	0.018
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	\$ICP	Lead	0.0135	mg/L	0.006
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	\$ICP	Magnesium	28.5	mg/L	0.021
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	\$ICP	Manganese	0.0959	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	\$ICP	Nickel	0.00383	mg/L	0.003
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	\$ICP	Selenium	0.0895	mg/L	0.009
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	\$ICP	Silver	0.00	mg/L	0.003
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	\$ICP	Strontium	0.380	mg/L	0.009
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	\$ICP	Thallium	0.0143	mg/L	0.012
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	\$ICP	Tin	0.00	mg/L	0.006
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	\$ICP	Zinc	0.0153	mg/L	0.006
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	\$ICP	Titanium	0	mg/L	
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	AS_FU	Arsenic by Furnace	0.790	ug/L	1.0
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	CU_FU	Copper by Furnace	3.2	ug/L	1
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	NH3	Ammonia as N	0	mg/L	0.5
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	NO3NO2	Nitrate + Nitrite	1.07	mg/L	0.5
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	TKN	Total Kjeldahl Nitrogen	1.225	mg/L	0.5
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	NO2	Nitrite as N	0.0314	mg/l	0.005
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	NO3	Nitrate as N (calculated)	1.0386	mg/l	
AC04945	LM05	Little Miami Watershed	5 (3261-08)	8/6/2012	11:45	CHLOROPHYLL	Chlorophyll	110	mg/m3	1.00
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	MF_CF	Fecal Coliform, Membrane Filter	220	CFU/100mL	
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	E-COLI	E.coli (Colilert)	79	MPN	
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	TDS	Total Dissolved Solids	320	mg/L	
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	BOD	Biochemical Oxygen Demand	5	mg/L	2
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	SO4	Sulfate	64.5	mg/L	12.5
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	CL	Chloride	122	mg/L	2.0
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	TSS	Tot. Suspended Solids	24	mg/L	2
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	SSC	Suspended Sediment Concentration	26.0	mg/L	5.0
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	HARD	Hardness as CaCO3	260	mg/l	
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	COD	COD	34	mg/L	
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	819	uS/cm	
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	TEMP_FLD	Temperature (Field) Celsius	26.57	Deg C	
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	PH_FLD	pH (Field)	8.40	S.U.	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	DO_FLD	Dissolved Oxygen (field) mg/L	11.7	mg/l	
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	795	uS/cm	
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	\$ICP	Antimony	0.00	mg/L	0.006
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	\$ICP	Barium	0.0718	mg/L	0.003
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	\$ICP	Calcium	AE	mg/L	0.066
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	\$ICP	Chromium	0.00	mg/L	0.006
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	\$ICP	Copper	0.00691	mg/L	0.006
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	\$ICP	Iron	0.367	mg/L	0.018
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	\$ICP	Lead	0.0171	mg/L	0.006
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	\$ICP	Magnesium	28.9	mg/L	0.021
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	\$ICP	Manganese	0.165	mg/L	0.009
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	\$ICP	Nickel	0.00514	mg/L	0.003
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	\$ICP	Selenium	0.0916	mg/L	0.009
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	\$ICP	Silver	0.00	mg/L	0.003
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	\$ICP	Strontium	0.351	mg/L	0.009
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	\$ICP	Thallium	0.00	mg/L	0.012
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	\$ICP	Tin	0.00	mg/L	0.006
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	\$ICP	Zinc	0.0261	mg/L	0.006
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	\$ICP	Titanium	0	mg/L	
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	AS_FU	Arsenic by Furnace	0.893	ug/L	1.0
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	CU_FU	Copper by Furnace	4.7	ug/L	1
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	NH3	Ammonia as N	0	mg/L	0.5
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	NO3NO2	Nitrate + Nitrite	3.87	mg/L	0.5
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	TKN	Total Kjeldahl Nitrogen	1.686	mg/L	0.5
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	NO2	Nitrite as N	0.0400	mg/l	0.005
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	NO3	Nitrate as N (calculated)	3.8300	mg/l	
AC04946	LM06	Little Miami Watershed	6 (3261-07)	8/6/2012	12:00	CHLOROPHYLL	Chlorophyll	223	mg/m3	1.00
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	MF_CF	Fecal Coliform, Membrane Filter	43	CFU/100mL	
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	E-COLI	E.coli (Colilert)	59	MPN	
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	TDS	Total Dissolved Solids	440	mg/L	
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	BOD	Biochemical Oxygen Demand	5	mg/L	2
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	SO4	Sulfate	65.5	mg/L	12.5
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	CL	Chloride	122	mg/L	2.00
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	TSS	Tot. Suspended Solids	16	mg/L	2
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	SSC	Suspended Sediment Concentration	21.0	mg/L	5.0
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	HARD	Hardness as CaCO3	242	mg/l	
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	COD	COD	34	mg/L	
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	807	uS/cm	
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	TEMP_FLD	Temperature (Field) Celsius	25.59	Deg C	
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	PH_FLD	pH (Field)	7.83	S.U.	
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	DO_FLD	Dissolved Oxygen (field) mg/L	8.68	mg/l	
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	796	uS/cm	
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	\$ICP	Aluminum	0.00	mg/L	0.348
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	\$ICP	Antimony	0.0190	mg/L	0.006
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	\$ICP	Arsenic	0.0938	mg/L	0.012
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	\$ICP	Barium	0.0710	mg/L	0.003
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	\$ICP	Calcium	AE	mg/L	0.066
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	\$ICP	Chromium	0.00	mg/L	0.006
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	\$ICP	Copper	0.00	mg/L	0.006
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	\$ICP	Iron	0.323	mg/L	0.018
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	\$ICP	Lead	0.0117	mg/L	0.006
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	\$ICP	Magnesium	28.2	mg/L	0.021
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	\$ICP	Manganese	0.170	mg/L	0.009
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	\$ICP	Nickel	0.00373	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	\$ICP	Selenium	0.00	mg/L	0.009
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	\$ICP	Silver	0.00	mg/L	0.003
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	\$ICP	Strontium	0.359	mg/L	0.009
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	\$ICP	Thallium	0.0385	mg/L	0.012
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	\$ICP	Tin	0.00	mg/L	0.006
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	\$ICP	Zinc	0.0189	mg/L	0.006
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	\$ICP	Titanium	0	mg/L	
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	AS_FU	Arsenic by Furnace	0.687	ug/L	1.0
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	CU_FU	Copper by Furnace	3.6	ug/L	1
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	NH3	Ammonia as N	0	mg/L	0.5
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	NO3NO2	Nitrate + Nitrite	1.89	mg/L	0.5
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	TKN	Total Kjeldahl Nitrogen	1.557	mg/L	0.5
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	NO2	Nitrite as N	0.0374	mg/l	0.005
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	NO3	Nitrate as N (calculated)	1.8526	mg/l	
AC04981	LM08	Little Miami Watershed	8 (3261-06)	8/7/2012	08:20	CHLOROPHYLL	Chlorophyll	182	mg/m3	1.00
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	MF_CF	Fecal Coliform, Membrane Filter	50	CFU/100mL	
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	E-COLI	E.coli (Colilert)	62	MPN	
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	TDS	Total Dissolved Solids	450	mg/L	
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	SO4	Sulfate	61.0	mg/L	12.5
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	CL	Chloride	122	mg/L	2.0
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	TSS	Tot. Suspended Solids	20	mg/L	2
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	SSC	Suspended Sediment Concentration	17.0	mg/L	5.0
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	HARD	Hardness as CaCO3	262	mg/l	
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	COD	COD	33	mg/L	
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	835	uS/cm	
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	TEMP_FLD	Temperature (Field) Celsius	25.45	Deg C	
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	PH_FLD	pH (Field)	7.70	S.U.	
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	DO_FLD	Dissolved Oxygen (field) mg/L	7.04	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	828	uS/cm	
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	\$ICP	Antimony	0.00	mg/L	0.006
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	\$ICP	Arsenic	0.0286	mg/L	0.012
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	\$ICP	Barium	0.0736	mg/L	0.003
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	\$ICP	Calcium	AE	mg/L	0.066
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	\$ICP	Chromium	0.00	mg/L	0.006
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	\$ICP	Copper	0.00	mg/L	0.006
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	\$ICP	Iron	0.290	mg/L	0.018
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	\$ICP	Lead	0.0133	mg/L	0.006
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	\$ICP	Magnesium	28.7	mg/L	0.021
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	\$ICP	Manganese	0.178	mg/L	0.009
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	\$ICP	Nickel	0.00	mg/L	0.003
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	\$ICP	Selenium	0.0450	mg/L	0.009
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	\$ICP	Silver	0.00	mg/L	0.003
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	\$ICP	Strontium	0.370	mg/L	0.009
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	\$ICP	Thallium	0.0279	mg/L	0.012
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	\$ICP	Tin	0.00	mg/L	0.006
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	\$ICP	Zinc	0.0143	mg/L	0.006
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	\$ICP	Titanium	0	mg/L	
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	PB_FU	Lead by Furnace	7.523	ug/L	0.5
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	AS_FU	Arsenic by Furnace	13.28	ug/L	1.0
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	CU_FU	Copper by Furnace	2.7	ug/L	1
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	NH3	Ammonia as N	0	mg/L	0.5
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	NO3NO2	Nitrate + Nitrite	1.08	mg/L	0.5
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	TKN	Total Kjeldahl Nitrogen	1.394	mg/L	0.5
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	NO2	Nitrite as N	0.0404	mg/l	0.005

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	NO3	Nitrate as N (calculated)	1.0396	mg/l	
AC04982	LM07	Little Miami Watershed	7	8/7/2012	08:40	CHLOROPHYLL	Chlorophyll	137	mg/m3	1.00
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	MF_CF	Fecal Coliform, Membrane Filter	36	CFU/100mL	
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	E-COLI	E.coli (Colilert)	36	MPN	
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	TDS	Total Dissolved Solids	460	mg/L	
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	SO4	Sulfate	67.5	mg/L	12.5
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	CL	Chloride	108	mg/L	1.00
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	TSS	Tot. Suspended Solids	6	mg/L	2
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	HARD	Hardness as CaCO3	240	mg/l	
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	COD	COD	12	mg/L	
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	737	uS/cm	
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	PH_FLD	pH (Field)	7.66	S.U.	
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	DO_FLD	Dissolved Oxygen (field) mg/L	6.17	mg/l	
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	768	uS/cm	
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	\$ICP	Antimony	0.0105	mg/L	0.006
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	\$ICP	Arsenic	0.104	mg/L	0.012
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	\$ICP	Barium	0.0410	mg/L	0.003
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	\$ICP	Calcium	AE	mg/L	0.066
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	\$ICP	Chromium	0.00	mg/L	0.006
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	\$ICP	Copper	0.00	mg/L	0.006
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	\$ICP	Iron	0.0529	mg/L	0.018
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	\$ICP	Lead	0.0188	mg/L	0.006
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	\$ICP	Magnesium	14.6	mg/L	0.021
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	\$ICP	Manganese	0.0598	mg/L	0.009
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	\$ICP	Nickel	0.00	mg/L	0.003
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	\$ICP	Selenium	0.124	mg/L	0.009
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	\$ICP	Silver	0.00	mg/L	0.003



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	\$ICP	Strontium	0.313	mg/L	0.009
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	\$ICP	Thallium	0.0279	mg/L	0.012
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	\$ICP	Tin	0.00	mg/L	0.006
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	\$ICP	Zinc	0.00926	mg/L	0.006
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	\$ICP	Titanium	0	mg/L	
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	AS_FU	Arsenic by Furnace	18.56	ug/L	1.0
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	CU_FU	Copper by Furnace	3.1	ug/L	1
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	NH3	Ammonia as N	0	mg/L	0.5
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	TKN	Total Kjeldahl Nitrogen	0.2500	mg/L	0.5
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	NO2	Nitrite as N	0.0034	mg/l	0.005
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04983	LM52	Little Miami Watershed	52	8/7/2012	00:00	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	29	CFU/100mL	
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	E-COLI	E.coli (Colilert)	36	MPN	
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	TDS	Total Dissolved Solids	450	mg/L	
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	SO4	Sulfate	59.2	mg/L	12.5
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	CL	Chloride	108	mg/L	1.00
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	TSS	Tot. Suspended Solids	6	mg/L	2
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	HARD	Hardness as CaCO3	242	mg/l	
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	COD	COD	6	mg/L	
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	744	uS/cm	
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	23.29	Deg C	
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	PH_FLD	pH (Field)	7.13	S.U.	
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	5.4	mg/l	
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	768	uS/cm	
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	\$ICP	Aluminum	0.00	mg/L	0.348

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	\$ICP	Antimony	0.00877	mg/L	0.006
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	\$ICP	Arsenic	0.0620	mg/L	0.012
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	\$ICP	Barium	0.0401	mg/L	0.003
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	\$ICP	Calcium	AE	mg/L	0.066
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	\$ICP	Chromium	0.00	mg/L	0.006
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	\$ICP	Copper	0.00	mg/L	0.006
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	\$ICP	Iron	0.0552	mg/L	0.018
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	\$ICP	Lead	0.00946	mg/L	0.006
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	\$ICP	Magnesium	14.9	mg/L	0.021
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	\$ICP	Manganese	0.0366	mg/L	0.009
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	\$ICP	Nickel	0.00	mg/L	0.003
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	\$ICP	Selenium	0.187	mg/L	0.009
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	\$ICP	Silver	0.00	mg/L	0.003
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	\$ICP	Strontium	0.301	mg/L	0.009
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	\$ICP	Thallium	0.00	mg/L	0.012
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	\$ICP	Tin	0.00	mg/L	0.006
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	\$ICP	Zinc	0.00963	mg/L	0.006
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	\$ICP	Titanium	0	mg/L	
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	AS_FU	Arsenic by Furnace	13.53	ug/L	1.0
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	CU_FU	Copper by Furnace	2.5	ug/L	1
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	TKN	Total Kjeldahl Nitrogen	0.2665	mg/L	0.5
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	NO2	Nitrite as N	0.0034	mg/l	0.005
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04984	LM51	Little Miami Watershed	51	8/7/2012	10:00	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	MF_CF	Fecal Coliform, Membrane Filter	36	CFU/100mL	
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	E-COLI	E.coli (Colilert)	160	MPN	
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	TDS	Total Dissolved Solids	510	mg/L	
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	SO4	Sulfate	73.8	mg/L	12.5
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	CL	Chloride	150	mg/L	4.0
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	TSS	Tot. Suspended Solids	12	mg/L	2
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	SSC	Suspended Sediment Concentration	9.0	mg/L	5.0
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	HARD	Hardness as CaCO3	260	mg/l	
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	COD	COD	17	mg/L	
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	835	uS/cm	
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	TEMP_FLD	Temperature (Field) Celsius	21.48	Deg C	
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	PH_FLD	pH (Field)	7.47	S.U.	
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	DO_FLD	Dissolved Oxygen (field) mg/L	5.77	mg/l	
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	895	uS/cm	
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	\$ICP	Antimony	0.00850	mg/L	0.006
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	\$ICP	Arsenic	0.0782	mg/L	0.012
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	\$ICP	Barium	0.0387	mg/L	0.003
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	\$ICP	Calcium	AE	mg/L	0.066
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	\$ICP	Chromium	0.00	mg/L	0.006
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	\$ICP	Copper	0.00	mg/L	0.006
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	\$ICP	Iron	0.0964	mg/L	0.018
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	\$ICP	Lead	0.0168	mg/L	0.006
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	\$ICP	Magnesium	14.1	mg/L	0.021
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	\$ICP	Manganese	0.0638	mg/L	0.009
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	\$ICP	Nickel	0.00	mg/L	0.003
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	\$ICP	Selenium	0.127	mg/L	0.009
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	\$ICP	Silver	0.00	mg/L	0.003
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	\$ICP	Strontium	0.366	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	\$ICP	Thallium	0.0262	mg/L	0.012
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	\$ICP	Tin	0.00	mg/L	0.006
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	\$ICP	Zinc	0.0120	mg/L	0.006
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	\$ICP	Titanium	0	mg/L	
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	PB_FU	Lead by Furnace	1.876	ug/L	0.5
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	AS_FU	Arsenic by Furnace	11.34	ug/L	1.0
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	CU_FU	Copper by Furnace	3.8	ug/L	1
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	NH3	Ammonia as N	0	mg/L	0.5
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	TKN	Total Kjeldahl Nitrogen	0.2754	mg/L	0.5
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	NO2	Nitrite as N	0.0037	mg/l	0.005
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04985	LM50	Little Miami Watershed	50	8/7/2012	20:00	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	MF_CF	Fecal Coliform, Membrane Filter	143	CFU/100mL	
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	E-COLI	E.coli (Colilert)	147	MPN	
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	TDS	Total Dissolved Solids	400	mg/L	
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	SO4	Sulfate	52.5	mg/L	12.5
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	CL	Chloride	105	mg/L	1.00
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	TSS	Tot. Suspended Solids	58	mg/L	2
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	HARD	Hardness as CaCO3	240	mg/l	
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	COD	COD	25	mg/L	
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	722	uS/cm	
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	TEMP_FLD	Temperature (Field) Celsius	20.08	Deg C	
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	PH_FLD	pH (Field)	7.59	S.U.	
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	DO_FLD	Dissolved Oxygen (field) mg/L	8.22	mg/l	
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	798	uS/cm	
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	\$ICP	Aluminum	0.533	mg/L	0.348
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	\$ICP	Antimony	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	\$ICP	Arsenic	0.0500	mg/L	0.012
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	\$ICP	Barium	0.0397	mg/L	0.003
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	\$ICP	Calcium	AE	mg/L	0.066
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	\$ICP	Chromium	0.00	mg/L	0.006
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	\$ICP	Copper	0.00	mg/L	0.006
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	\$ICP	Iron	0.833	mg/L	0.018
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	\$ICP	Lead	0.0230	mg/L	0.006
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	\$ICP	Magnesium	13.2	mg/L	0.021
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	\$ICP	Manganese	0.190	mg/L	0.009
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	\$ICP	Nickel	0.00	mg/L	0.003
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	\$ICP	Selenium	0.0731	mg/L	0.009
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	\$ICP	Silver	0.00	mg/L	0.003
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	\$ICP	Strontium	0.340	mg/L	0.009
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	\$ICP	Thallium	0.0284	mg/L	0.012
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	\$ICP	Tin	0.00	mg/L	0.006
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	\$ICP	Zinc	0.0158	mg/L	0.006
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	\$ICP	Titanium	0	mg/L	
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	PB_FU	Lead by Furnace	0	ug/L	0.5
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	AS_FU	Arsenic by Furnace	1.686	ug/L	1.0
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	CU_FU	Copper by Furnace	3.8	ug/L	1
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	NH3	Ammonia as N	0	mg/L	0.5
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	TKN	Total Kjeldahl Nitrogen	0.3823	mg/L	0.5
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	NO2	Nitrite as N	0.0038	mg/l	0.005
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04986	LM49	Little Miami Watershed	49	8/7/2012	00:00	CHLOROPHYLL	Chlorophyll	34.7	mg/m3	1.00
AC04987	LM54	Little Miami Watershed	54	8/7/2012	10:10	MF_CF	Fecal Coliform, Membrane Filter	71	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC04987	LM54	Little Miami Watershed	54	8/7/2012	10:10	E-COLI	E.coli (Colilert)	30	MPN	
AC04987	LM54	Little Miami Watershed	54	8/7/2012	10:10	TDS	Total Dissolved Solids	390	mg/L	
AC04987	LM54	Little Miami Watershed	54	8/7/2012	10:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC04987	LM54	Little Miami Watershed	54	8/7/2012	10:10	SO4	Sulfate	118	mg/L	25.0
AC04987	LM54	Little Miami Watershed	54	8/7/2012	10:10	CL	Chloride	66.8	mg/L	1.00
AC04987	LM54	Little Miami Watershed	54	8/7/2012	10:10	TSS	Tot. Suspended Solids	14	mg/L	2
AC04987	LM54	Little Miami Watershed	54	8/7/2012	10:10	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC04987	LM54	Little Miami Watershed	54	8/7/2012	10:10	HARD	Hardness as CaCO3	260	mg/l	
AC04987	LM54	Little Miami Watershed	54	8/7/2012	10:10	COD	COD	24	mg/L	
AC04987	LM54	Little Miami Watershed	54	8/7/2012	10:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	630	uS/cm	
AC04987	LM54	Little Miami Watershed	54	8/7/2012	10:10	TEMP_FLD	Temperature (Field) Celsius	20.97	Deg C	
AC04987	LM54	Little Miami Watershed	54	8/7/2012	10:10	PH_FLD	pH (Field)	7.1	S.U.	
AC04987	LM54	Little Miami Watershed	54	8/7/2012	10:10	DO_FLD	Dissolved Oxygen (field) mg/L	6.94	mg/l	
AC04987	LM54	Little Miami Watershed	54	8/7/2012	10:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	684	uS/cm	
AC04987	LM54	Little Miami Watershed	54	8/7/2012	10:10	NH3	Ammonia as N	0	mg/L	0.5
AC04987	LM54	Little Miami Watershed	54	8/7/2012	10:10	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC04987	LM54	Little Miami Watershed	54	8/7/2012	10:10	TKN	Total Kjeldahl Nitrogen	0.3257	mg/L	0.5
AC04987	LM54	Little Miami Watershed	54	8/7/2012	10:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC04987	LM54	Little Miami Watershed	54	8/7/2012	10:10	NO2	Nitrite as N	0.0056	mg/l	0.005
AC04987	LM54	Little Miami Watershed	54	8/7/2012	10:10	NO3	Nitrate as N (calculated)	AW	mg/l	
AC04987	LM54	Little Miami Watershed	54	8/7/2012	10:10	CHLOROPHYLL	Chlorophyll	3.74	mg/m3	1.00
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	MF_CF	Fecal Coliform, Membrane Filter	71	CFU/100mL	
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	E-COLI	E.coli (Colilert)	93	MPN	
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	TDS	Total Dissolved Solids	390	mg/L	
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	BOD	Biochemical Oxygen Demand	5	mg/L	2
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	SO4	Sulfate	53.5	mg/L	12.5
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	CL	Chloride	86.3	mg/L	1.00
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	TSS	Tot. Suspended Solids	28	mg/L	2
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	SSC	Suspended Sediment Concentration	13.0	mg/L	5.0
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	HARD	Hardness as CaCO3	192	mg/l	
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	COD	COD	5	mg/L	
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	647	uS/cm	
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	TEMP_FLD	Temperature (Field) Celsius	26.36	Deg C	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	PH_FLD	pH (Field)	7.76	S.U.	
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	DO_FLD	Dissolved Oxygen (field) mg/L	8.60	mg/l	
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	630	uS/cm	
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	\$ICP	Antimony	0.0322	mg/L	0.006
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	\$ICP	Barium	0.0517	mg/L	0.003
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	\$ICP	Calcium	43.7	mg/L	0.066
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	\$ICP	Chromium	0.00	mg/L	0.006
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	\$ICP	Copper	0.00	mg/L	0.006
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	\$ICP	Iron	0.419	mg/L	0.018
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	\$ICP	Lead	0.00	mg/L	0.006
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	\$ICP	Magnesium	22.9	mg/L	0.021
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	\$ICP	Manganese	0.180	mg/L	0.009
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	\$ICP	Nickel	0.00434	mg/L	0.003
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	\$ICP	Selenium	0.0481	mg/L	0.009
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	\$ICP	Silver	0.00	mg/L	0.003
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	\$ICP	Strontium	0.255	mg/L	0.009
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	\$ICP	Thallium	0.00	mg/L	0.012
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	\$ICP	Tin	0.00	mg/L	0.006
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	\$ICP	Zinc	0.0123	mg/L	0.006
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	AS_FU	Arsenic by Furnace	15.99	ug/L	1.0
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	CU_FU	Copper by Furnace	3.0	ug/L	1
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	NH3	Ammonia as N	0	mg/L	0.5
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	NO3NO2	Nitrate + Nitrite	0.8843	mg/L	0.5
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	TKN	Total Kjeldahl Nitrogen	1.261	mg/L	0.5
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	NO2	Nitrite as N	0.0250	mg/l	0.005
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	NO3	Nitrate as N (calculated)	0.8593	mg/l	
AC05051	LM11	Little Miami Watershed	11	8/8/2012	09:00	CHLOROPHYLL	Chlorophyll	110	mg/m3	1.00
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	MF_CF	Fecal Coliform, Membrane Filter	43	CFU/100mL	
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	E-COLI	E.coli (Colilert)	62	MPN	
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	TDS	Total Dissolved Solids	300	mg/L	
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	SO4	Sulfate	48.2	mg/L	12.5
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	CL	Chloride	77.5	mg/L	1.00
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	TSS	Tot. Suspended Solids	16	mg/L	2
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	SSC	Suspended Sediment Concentration	1.60	mg/L	5.0
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	HARD	Hardness as CaCO3	184	mg/l	
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	COD	COD	47	mg/L	
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	613	uS/cm	
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	TEMP_FLD	Temperature (Field) Celsius	26.07	Deg C	
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	PH_FLD	pH (Field)	7.68	S.U.	
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	DO_FLD	Dissolved Oxygen (field) mg/L	8.18	mg/l	
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	600	uS/cm	
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	\$ICP	Aluminum	0.00	mg/L	0.348
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	\$ICP	Antimony	0.00	mg/L	0.006
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	\$ICP	Arsenic	0.0196	mg/L	0.012
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	\$ICP	Barium	0.0487	mg/L	0.003
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	\$ICP	Calcium	43.8	mg/L	0.066
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	\$ICP	Chromium	0.00	mg/L	0.006
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	\$ICP	Copper	0.00	mg/L	0.006
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	\$ICP	Iron	0.317	mg/L	0.018
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	\$ICP	Lead	0.0129	mg/L	0.006
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	\$ICP	Magnesium	20.3	mg/L	0.021
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	\$ICP	Manganese	0.160	mg/L	0.009
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	\$ICP	Nickel	0.00379	mg/L	0.003



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	\$ICP	Selenium	0.0457	mg/L	0.009
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	\$ICP	Silver	0.00	mg/L	0.003
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	\$ICP	Strontium	0.231	mg/L	0.009
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	\$ICP	Thallium	0.00	mg/L	0.012
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	\$ICP	Tin	0.00	mg/L	0.006
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	\$ICP	Zinc	0.0143	mg/L	0.006
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	PB_FU	Lead by Furnace	0.818	ug/L	0.5
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	AS_FU	Arsenic by Furnace	26.50	ug/L	1.0
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	CU_FU	Copper by Furnace	3.0	ug/L	1
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	NH3	Ammonia as N	0	mg/L	0.5
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	NO3NO2	Nitrate + Nitrite	0.9266	mg/L	0.5
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	TKN	Total Kjeldahl Nitrogen	1.154	mg/L	0.5
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	NO2	Nitrite as N	0.0247	mg/l	0.005
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	NO3	Nitrate as N (calculated)	0.9019	mg/l	
AC05052	LM12	Little Miami Watershed	12 (3261-04)	8/8/2012	09:20	CHLOROPHYLL	Chlorophyll	76.4	mg/m3	1.00
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	MF_CF	Fecal Coliform, Membrane Filter	330	CFU/100mL	
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	E-COLI	E.coli (Colilert)	248	MPN	
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	TDS	Total Dissolved Solids	330	mg/L	
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	SO4	Sulfate	50.8	mg/L	12.5
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	CL	Chloride	76.8	mg/L	1.00
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	TSS	Tot. Suspended Solids	24	mg/L	2
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	SSC	Suspended Sediment Concentration	12.0	mg/L	5.0
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	HARD	Hardness as CaCO3	192	mg/l	
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	COD	COD	39	mg/L	
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	622	uS/cm	
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	TEMP_FLD	Temperature (Field) Celsius	26.59	Deg C	
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	PH_FLD	pH (Field)	7.70	S.U.	
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	DO_FLD	Dissolved Oxygen (field) mg/L	7.66	mg/l	
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	604	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	\$ICP	Antimony	0.00	mg/L	0.006
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	\$ICP	Arsenic	0.00	mg/L	0.012
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	\$ICP	Barium	0.0511	mg/L	0.003
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	\$ICP	Calcium	46.0	mg/L	0.066
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	\$ICP	Chromium	0.00	mg/L	0.006
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	\$ICP	Copper	0.00	mg/L	0.006
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	\$ICP	Iron	0.415	mg/L	0.018
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	\$ICP	Lead	0.00	mg/L	0.006
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	\$ICP	Magnesium	20.6	mg/L	0.021
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	\$ICP	Manganese	0.183	mg/L	0.009
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	\$ICP	Nickel	0.00	mg/L	0.003
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	\$ICP	Selenium	0.0250	mg/L	0.009
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	\$ICP	Silver	0.00	mg/L	0.003
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	\$ICP	Strontium	0.237	mg/L	0.009
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	\$ICP	Thallium	0.00	mg/L	0.012
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	\$ICP	Tin	0.00	mg/L	0.006
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	\$ICP	Zinc	0.0119	mg/L	0.006
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	PB_FU	Lead by Furnace	1.481	ug/L	0.5
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	AS_FU	Arsenic by Furnace	2.367	ug/L	1.0
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	CU_FU	Copper by Furnace	2.6	ug/L	1
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	NH3	Ammonia as N	0	mg/L	0.5
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	NO3NO2	Nitrate + Nitrite	0.8212	mg/L	0.5
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	TKN	Total Kjeldahl Nitrogen	1.075	mg/L	0.5
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	NO2	Nitrite as N	0.0233	mg/l	0.005
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	NO3	Nitrate as N (calculated)	0.7979	mg/l	
AC05053	LM13	Little Miami Watershed	13 (3261-03)	8/8/2012	09:50	CHLOROPHYLL	Chlorophyll	48.6	mg/m3	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	MF_CF	Fecal Coliform, Membrane Filter	121	CFU/100mL	
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	E-COLI	E.coli (Colilert)	86	MPN	
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	TDS	Total Dissolved Solids	330	mg/L	
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	SO4	Sulfate	50.8	mg/L	12.5
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	CL	Chloride	80.7	mg/L	1.00
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	TSS	Tot. Suspended Solids	24	mg/L	2
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	SSC	Suspended Sediment Concentration	14.0	mg/L	5.0
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	HARD	Hardness as CaCO3	204	mg/l	
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	COD	COD	37	mg/L	
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	650	uS/cm	
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	TEMP_FLD	Temperature (Field) Celsius	26.97	Deg C	
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	PH_FLD	pH (Field)	7.83	S.U.	
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	DO_FLD	Dissolved Oxygen (field) mg/L	6.59	mg/l	
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	627	uS/cm	
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	\$ICP	Aluminum	0.00	mg/L	0.348
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	\$ICP	Antimony	0.0164	mg/L	0.006
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	\$ICP	Arsenic	0.0304	mg/L	0.012
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	\$ICP	Barium	0.0556	mg/L	0.003
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	\$ICP	Calcium	49.5	mg/L	0.066
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	\$ICP	Chromium	0.00	mg/L	0.006
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	\$ICP	Copper	0.00	mg/L	0.006
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	\$ICP	Iron	0.599	mg/L	0.018
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	\$ICP	Lead	0.0125	mg/L	0.006
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	\$ICP	Magnesium	21.3	mg/L	0.021
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	\$ICP	Manganese	0.250	mg/L	0.009
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	\$ICP	Nickel	0.00	mg/L	0.003
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	\$ICP	Selenium	0.0867	mg/L	0.009
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	\$ICP	Silver	0.00	mg/L	0.003
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	\$ICP	Strontium	0.253	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	\$ICP	Thallium	0.0466	mg/L	0.012
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	\$ICP	Tin	0.00	mg/L	0.006
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	\$ICP	Zinc	0.0148	mg/L	0.006
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	AS_FU	Arsenic by Furnace	2.486	ug/L	1.0
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	CU_FU	Copper by Furnace	2.6	ug/L	1
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	NH3	Ammonia as N	0	mg/L	0.5
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	NO3NO2	Nitrate + Nitrite	0.7933	mg/L	0.5
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	TKN	Total Kjeldahl Nitrogen	1.165	mg/L	0.5
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	NO2	Nitrite as N	0.0254	mg/l	0.005
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	NO3	Nitrate as N (calculated)	0.7679	mg/l	
AC05054	LM14	Little Miami Watershed	14	8/8/2012	10:10	CHLOROPHYLL	Chlorophyll	50.7	mg/m3	1.00
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	93	CFU/100mL	
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	E-COLI	E.coli (Colilert)	86	MPN	
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	TDS	Total Dissolved Solids	320	mg/L	
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	SO4	Sulfate	51.8	mg/L	12.5
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	CL	Chloride	82.8	mg/L	1.00
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	TSS	Tot. Suspended Solids	14	mg/L	2
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	SSC	Suspended Sediment Concentration	11.0	mg/L	5.0
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	HARD	Hardness as CaCO3	204	mg/l	
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	COD	COD	33	mg/L	
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	677	uS/cm	
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	27.70	Deg C	
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	PH_FLD	pH (Field)	8.05	S.U.	
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	10.11	mg/l	
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	644	uS/cm	
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	\$ICP	Antimony	0.00	mg/L	0.006
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	\$ICP	Arsenic	0.00	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	\$ICP	Barium	0.0491	mg/L	0.003
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	\$ICP	Calcium	48.9	mg/L	0.066
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	\$ICP	Chromium	0.00	mg/L	0.006
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	\$ICP	Copper	0.00	mg/L	0.006
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	\$ICP	Iron	0.336	mg/L	0.018
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	\$ICP	Lead	0.0163	mg/L	0.006
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	\$ICP	Magnesium	20.6	mg/L	0.021
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	\$ICP	Manganese	0.191	mg/L	0.009
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	\$ICP	Nickel	0.00402	mg/L	0.003
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	\$ICP	Selenium	0.0796	mg/L	0.009
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	\$ICP	Silver	0.00	mg/L	0.003
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	\$ICP	Strontium	0.241	mg/L	0.009
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	\$ICP	Thallium	0.00	mg/L	0.012
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	\$ICP	Tin	0.00	mg/L	0.006
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	\$ICP	Zinc	0.00998	mg/L	0.006
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	AS_FU	Arsenic by Furnace	2.751	ug/L	1.0
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	CU_FU	Copper by Furnace	2.5	ug/L	1
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	NO3NO2	Nitrate + Nitrite	0.7369	mg/L	0.5
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	TKN	Total Kjeldahl Nitrogen	1.010	mg/L	0.5
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	NO2	Nitrite as N	0.0231	mg/l	0.005
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	NO3	Nitrate as N (calculated)	0.7138	mg/l	
AC05055	LM15	Little Miami Watershed	15	8/8/2012	10:30	CHLOROPHYLL	Chlorophyll	37.4	mg/m3	1.00
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	MF_CF	Fecal Coliform, Membrane Filter	64	CFU/100mL	
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	E-COLI	E.coli (Colilert)	51	MPN	
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	TDS	Total Dissolved Solids	360	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	SO4	Sulfate	53.5	mg/L	25.0
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	CL	Chloride	84.2	mg/L	1.00
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	TSS	Tot. Suspended Solids	12	mg/L	2
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	HARD	Hardness as CaCO3	200	mg/l	
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	COD	COD	42	mg/L	
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	670	uS/cm	
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	TEMP_FLD	Temperature (Field) Celsius	27.28	Deg C	
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	PH_FLD	pH (Field)	8.10	S.U.	
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	DO_FLD	Dissolved Oxygen (field) mg/L	8.88	mg/l	
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	642	uS/cm	
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	\$ICP	Antimony	0.00	mg/L	0.006
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	\$ICP	Arsenic	0.00	mg/L	0.012
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	\$ICP	Barium	0.0507	mg/L	0.003
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	\$ICP	Calcium	48.5	mg/L	0.066
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	\$ICP	Chromium	0.00	mg/L	0.006
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	\$ICP	Copper	0.00	mg/L	0.006
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	\$ICP	Iron	0.421	mg/L	0.018
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	\$ICP	Lead	0.00779	mg/L	0.006
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	\$ICP	Magnesium	21.7	mg/L	0.021
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	\$ICP	Manganese	0.201	mg/L	0.009
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	\$ICP	Nickel	0.00455	mg/L	0.003
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	\$ICP	Selenium	0.0777	mg/L	0.009
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	\$ICP	Silver	0.00	mg/L	0.003
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	\$ICP	Strontium	0.248	mg/L	0.009
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	\$ICP	Thallium	0.00	mg/L	0.012
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	\$ICP	Tin	0.00	mg/L	0.006
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	\$ICP	Vanadium	0.00	mg/L	0.018

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	\$ICP	Zinc	0.0125	mg/L	0.006
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	AS_FU	Arsenic by Furnace	0.550	ug/L	1.0
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	CU_FU	Copper by Furnace	2.6	ug/L	1
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	NH3	Ammonia as N	0	mg/L	0.5
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	NO3NO2	Nitrate + Nitrite	0.682	mg/L	0.5
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	TKN	Total Kjeldahl Nitrogen	1.080	mg/L	0.5
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	NO2	Nitrite as N	0.0239	mg/l	0.005
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	NO3	Nitrate as N (calculated)	0.6581	mg/l	
AC05056	LM16	Little Miami Watershed	16 (3261-02)	8/8/2012	10:50	CHLOROPHYLL	Chlorophyll	42.7	mg/m3	1.00
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	MF_CF	Fecal Coliform, Membrane Filter	270	CFU/100mL	
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	E-COLI	E.coli (Colilert)	68	MPN	
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	TDS	Total Dissolved Solids	360	mg/L	
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	SO4	Sulfate	48.8	mg/L	1.00
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	CL	Chloride	84.2	mg/L	1.00
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	TSS	Tot. Suspended Solids	20	mg/L	2
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	SSC	Suspended Sediment Concentration	13.0	mg/L	5.0
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	HARD	Hardness as CaCO3	200	mg/l	
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	COD	COD	37	mg/L	
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	654	uS/cm	
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	TEMP_FLD	Temperature (Field) Celsius	27.28	Deg C	
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	PH_FLD	pH (Field)	7.59	S.U.	
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	DO_FLD	Dissolved Oxygen (field) mg/L	7.42	mg/l	
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	627	uS/cm	
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	\$ICP	Aluminum	0.00	mg/L	0.348
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	\$ICP	Antimony	0.00	mg/L	0.006
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	\$ICP	Arsenic	0.0262	mg/L	0.012
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	\$ICP	Barium	0.0489	mg/L	0.003
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	\$ICP	Cadmium	0.00	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	\$ICP	Calcium	46.1	mg/L	0.066
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	\$ICP	Chromium	0.00	mg/L	0.006
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	\$ICP	Copper	0.00	mg/L	0.006
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	\$ICP	Iron	0.639	mg/L	0.018
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	\$ICP	Lead	0.0117	mg/L	0.006
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	\$ICP	Magnesium	21.3	mg/L	0.021
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	\$ICP	Manganese	0.195	mg/L	0.009
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	\$ICP	Nickel	0.00397	mg/L	0.003
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	\$ICP	Selenium	0.0157	mg/L	0.009
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	\$ICP	Silver	0.00	mg/L	0.003
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	\$ICP	Strontium	0.234	mg/L	0.009
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	\$ICP	Thallium	0.00	mg/L	0.012
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	\$ICP	Tin	0.00	mg/L	0.006
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	\$ICP	Zinc	0.0178	mg/L	0.006
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	AS_FU	Arsenic by Furnace	1.615	ug/L	1.0
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	CU_FU	Copper by Furnace	2.9	ug/L	1
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	NH3	Ammonia as N	0	mg/L	0.5
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	NO3NO2	Nitrate + Nitrite	0.5031	mg/L	0.5
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	TKN	Total Kjeldahl Nitrogen	0.9267	mg/L	0.5
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	NO2	Nitrite as N	0.0204	mg/l	0.005
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	NO3	Nitrate as N (calculated)	0.4827	mg/l	
AC05057	LM17	Little Miami Watershed	17 (3261-01)	8/8/2012	11:20	CHLOROPHYLL	Chlorophyll	26.2	mg/m3	1.00
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	MF_CF	Fecal Coliform, Membrane Filter	50	CFU/100mL	
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	E-COLI	E.coli (Colilert)	111	MPN	
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	TDS	Total Dissolved Solids	580	mg/L	
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	SO4	Sulfate	89.6	mg/L	50.0
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	CL	Chloride	110	mg/L	1.00



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	TSS	Tot. Suspended Solids	12	mg/L	2
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	SSC	Suspended Sediment Concentration	8.0	mg/L	5.0
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	HARD	Hardness as CaCO3	222	mg/l	
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	COD	COD	43	mg/L	
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	880	uS/cm	
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	TEMP_FLD	Temperature (Field) Celsius	23.57	Deg C	
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	PH_FLD	pH (Field)	7.62	S.U.	
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	DO_FLD	Dissolved Oxygen (field) mg/L	8.63	mg/l	
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	905	uS/cm	
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	\$ICP	Aluminum	0.639	mg/L	0.348
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	\$ICP	Antimony	0.00	mg/L	0.006
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	\$ICP	Arsenic	0.0448	mg/L	0.012
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	\$ICP	Barium	0.0385	mg/L	0.003
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	\$ICP	Calcium	51.0	mg/L	0.066
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	\$ICP	Chromium	0.00	mg/L	0.006
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	\$ICP	Copper	0.00665	mg/L	0.006
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	\$ICP	Iron	1.18	mg/L	0.018
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	\$ICP	Lead	0.0209	mg/L	0.006
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	\$ICP	Magnesium	11.3	mg/L	0.021
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	\$ICP	Manganese	0.217	mg/L	0.009
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	\$ICP	Nickel	0.00307	mg/L	0.003
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	\$ICP	Selenium	0.00	mg/L	0.009
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	\$ICP	Silver	0.00	mg/L	0.003
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	\$ICP	Strontium	0.159	mg/L	0.009
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	\$ICP	Thallium	0.00	mg/L	0.012
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	\$ICP	Tin	0.00	mg/L	0.006
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	\$ICP	Zinc	0.0179	mg/L	0.006
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	AS_FU	Arsenic by Furnace	1.463	ug/L	1.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	CU_FU	Copper by Furnace	12.7	ug/L	1
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	NH3	Ammonia as N	0	mg/L	0.5
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	NO3NO2	Nitrate + Nitrite	3.14	mg/L	0.5
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	TKN	Total Kjeldahl Nitrogen	0.6451	mg/L	0.5
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	TKP	Total Kjeldahl Phosphorus	0.5425	mg/L	0.5
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	NO2	Nitrite as N	0.0160	mg/l	0.005
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	NO3	Nitrate as N (calculated)	3.1240	mg/l	
AC05166	LM37	Little Miami Watershed	37	8/9/2012	08:15	CHLOROPHYLL	Chlorophyll	1.78	mg/m3	1.00
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	MF_CF	Fecal Coliform, Membrane Filter	440	CFU/100mL	
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	E-COLI	E.coli (Colilert)	365	MPN	
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	TDS	Total Dissolved Solids	260	mg/L	
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	SO4	Sulfate	33.2	mg/L	12.5
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	CL	Chloride	29.3	mg/L	1.00
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	TSS	Tot. Suspended Solids	28	mg/L	2
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	SSC	Suspended Sediment Concentration	22.0	mg/L	5.0
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	HARD	Hardness as CaCO3	164	mg/l	
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	COD	COD	35	mg/L	
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	402	uS/cm	
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	TEMP_FLD	Temperature (Field) Celsius	25.04	Deg C	
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	PH_FLD	pH (Field)	7.53	S.U.	
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	DO_FLD	Dissolved Oxygen (field) mg/L	8.37	mg/l	
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	402	uS/cm	
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	\$ICP	Aluminum	0.564	mg/L	0.348
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	\$ICP	Antimony	0.00	mg/L	0.006
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	\$ICP	Arsenic	0.0573	mg/L	0.012
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	\$ICP	Barium	0.0424	mg/L	0.003
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	\$ICP	Calcium	55.7	mg/L	0.066
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	\$ICP	Chromium	0.00	mg/L	0.006
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	\$ICP	Cobalt	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	\$ICP	Copper	0.00717	mg/L	0.006
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	\$ICP	Iron	1.04	mg/L	0.018
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	\$ICP	Lead	0.0100	mg/L	0.006
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	\$ICP	Magnesium	12.3	mg/L	0.021
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	\$ICP	Manganese	0.198	mg/L	0.009
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	\$ICP	Nickel	0.00431	mg/L	0.003
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	\$ICP	Selenium	0.0453	mg/L	0.009
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	\$ICP	Silver	0.00	mg/L	0.003
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	\$ICP	Strontium	0.175	mg/L	0.009
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	\$ICP	Thallium	0.0514	mg/L	0.012
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	\$ICP	Tin	0.00	mg/L	0.006
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	\$ICP	Zinc	0.0201	mg/L	0.006
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	AS_FU	Arsenic by Furnace	1.230	ug/L	1.0
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	CU_FU	Copper by Furnace	4.5	ug/L	1
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	NH3	Ammonia as N	0	mg/L	0.5
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	NO3NO2	Nitrate + Nitrite	0.797	mg/L	0.5
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	TKN	Total Kjeldahl Nitrogen	1.340	mg/L	0.5
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	NO2	Nitrite as N	0.0186	mg/l	0.005
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	NO3	Nitrate as N (calculated)	0.7784	mg/l	
AC05167	LM32	Little Miami Watershed	32	8/9/2012	09:00	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	MF_CF	Fecal Coliform, Membrane Filter	193	CFU/100mL	
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	E-COLI	E.coli (Colilert)	248	MPN	
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	TDS	Total Dissolved Solids	230	mg/L	
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	SO4	Sulfate	41.5	mg/L	12.5
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	CL	Chloride	42.1	mg/L	1.00
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	TSS	Tot. Suspended Solids	28	mg/L	2
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	SSC	Suspended Sediment Concentration	24.0	mg/L	5.0
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	HARD	Hardness as CaCO3	172	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	COD	COD	39	mg/L	
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	477	uS/cm	
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	TEMP_FLD	Temperature (Field) Celsius	25.02	Deg C	
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	PH_FLD	pH (Field)	7.18	S.U.	
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	DO_FLD	Dissolved Oxygen (field) mg/L	8.20	mg/l	
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	477	uS/cm	
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	\$ICP	Aluminum	0.716	mg/L	0.348
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	\$ICP	Antimony	0.00	mg/L	0.006
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	\$ICP	Arsenic	0.0630	mg/L	0.012
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	\$ICP	Barium	0.0419	mg/L	0.003
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	\$ICP	Calcium	54.5	mg/L	0.066
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	\$ICP	Chromium	0.00	mg/L	0.006
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	\$ICP	Copper	0.00721	mg/L	0.006
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	\$ICP	Iron	1.34	mg/L	0.018
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	\$ICP	Lead	0.00974	mg/L	0.006
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	\$ICP	Magnesium	12.0	mg/L	0.021
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	\$ICP	Manganese	0.199	mg/L	0.009
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	\$ICP	Nickel	0.00567	mg/L	0.003
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	\$ICP	Selenium	0.0833	mg/L	0.009
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	\$ICP	Silver	0.00	mg/L	0.003
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	\$ICP	Strontium	0.174	mg/L	0.009
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	\$ICP	Thallium	0.0282	mg/L	0.012
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	\$ICP	Tin	0.00	mg/L	0.006
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	\$ICP	Zinc	0.0211	mg/L	0.006
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	AS_FU	Arsenic by Furnace	1.787	ug/L	1.0
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	CU_FU	Copper by Furnace	3.7	ug/L	1
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	NH3	Ammonia as N	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	NO3NO2	Nitrate + Nitrite	3.64	mg/L	0.5
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	TKN	Total Kjeldahl Nitrogen	0.5670	mg/L	0.5
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	TKP	Total Kjeldahl Phosphorus	0.5264	mg/L	0.5
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	NO2	Nitrite as N	0.0407	mg/l	0.005
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	NO3	Nitrate as N (calculated)	3.5993	mg/l	
AC05168	LM34	Little Miami Watershed	34	8/9/2012	09:15	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	MF_CF	Fecal Coliform, Membrane Filter	64	CFU/100mL	
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	E-COLI	E.coli (Colilert)	34	MPN	
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	TDS	Total Dissolved Solids	470	mg/L	
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	BOD	Biochemical Oxygen Demand	6	mg/L	2
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	SO4	Sulfate	63.2	mg/L	12.5
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	CL	Chloride	128	mg/L	2.0
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	TSS	Tot. Suspended Solids	28	mg/L	2
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	SSC	Suspended Sediment Concentration	18.0	mg/L	5.0
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	HARD	Hardness as CaCO3	252	mg/l	
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	COD	COD	40	mg/L	
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	887	uS/cm	
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	TEMP_FLD	Temperature (Field) Celsius	27.49	Deg C	
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	PH_FLD	pH (Field)	8.19	S.U.	
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	DO_FLD	Dissolved Oxygen (field) mg/L	9.82	mg/l	
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	846	uS/cm	
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	\$ICP	Antimony	0.00	mg/L	0.006
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	\$ICP	Arsenic	0.0890	mg/L	0.012
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	\$ICP	Barium	0.0734	mg/L	0.003
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	\$ICP	Calcium	56.0	mg/L	0.066
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	\$ICP	Chromium	0.00	mg/L	0.006
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	\$ICP	Copper	0.00	mg/L	0.006
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	\$ICP	Iron	0.356	mg/L	0.018
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	\$ICP	Lead	0.0124	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	\$ICP	Magnesium	29.5	mg/L	0.021
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	\$ICP	Manganese	0.171	mg/L	0.009
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	\$ICP	Nickel	0.00	mg/L	0.003
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	\$ICP	Selenium	0.0736	mg/L	0.009
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	\$ICP	Silver	0.00	mg/L	0.003
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	\$ICP	Strontium	0.354	mg/L	0.009
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	\$ICP	Thallium	0.0254	mg/L	0.012
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	\$ICP	Tin	0.00	mg/L	0.006
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	\$ICP	Zinc	0.0149	mg/L	0.006
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	AS_FU	Arsenic by Furnace	2.448	ug/L	1.0
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	CU_FU	Copper by Furnace	4.9	ug/L	1
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	NH3	Ammonia as N	0	mg/L	0.5
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	NO3NO2	Nitrate + Nitrite	0.886	mg/L	0.5
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	TKN	Total Kjeldahl Nitrogen	1.311	mg/L	0.5
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	NO2	Nitrite as N	0.0470	mg/l	0.005
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	NO3	Nitrate as N (calculated)	0.8390	mg/l	
AC05169	LM09	Little Miami Watershed	9	8/9/2012	09:40	CHLOROPHYLL	Chlorophyll	101	mg/m3	1.00
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	36	CFU/100mL	
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	E-COLI	E.coli (Colilert)	115	MPN	
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	TDS	Total Dissolved Solids	500	mg/L	
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	BOD	Biochemical Oxygen Demand	6	mg/L	2
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	SO4	Sulfate	65.2	mg/L	12.5
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	CL	Chloride	133	mg/L	2.00
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	TSS	Tot. Suspended Solids	34	mg/L	2
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	SSC	Suspended Sediment Concentration	24.0	mg/L	5.0
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	HARD	Hardness as CaCO3	242	mg/l	
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	COD	COD	43	mg/L	
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	838	uS/cm	
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	26.84	Deg C	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	PH_FLD	pH (Field)	7.36	S.U.	
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	8.90	mg/l	
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	809	uS/cm	
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	\$ICP	Antimony	0.00866	mg/L	0.006
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	\$ICP	Arsenic	0.0219	mg/L	0.012
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	\$ICP	Barium	0.0735	mg/L	0.003
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	\$ICP	Calcium	59.6	mg/L	0.066
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	\$ICP	Chromium	0.00	mg/L	0.006
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	\$ICP	Copper	0.00644	mg/L	0.006
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	\$ICP	Iron	0.287	mg/L	0.018
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	\$ICP	Lead	0.0108	mg/L	0.006
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	\$ICP	Magnesium	29.2	mg/L	0.021
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	\$ICP	Manganese	0.150	mg/L	0.009
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	\$ICP	Nickel	0.00442	mg/L	0.003
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	\$ICP	Selenium	0.0969	mg/L	0.009
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	\$ICP	Silver	0.00	mg/L	0.003
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	\$ICP	Strontium	0.360	mg/L	0.009
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	\$ICP	Thallium	0.00	mg/L	0.012
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	\$ICP	Tin	0.00	mg/L	0.006
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	\$ICP	Zinc	0.0173	mg/L	0.006
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	AS_FU	Arsenic by Furnace	2.304	ug/L	1.0
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	CU_FU	Copper by Furnace	3.1	ug/L	1
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	NO3NO2	Nitrate + Nitrite	2.28	mg/L	0.5
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	TKN	Total Kjeldahl Nitrogen	0.5511	mg/L	0.5
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	NO2	Nitrite as N	0.0159	mg/l	0.005
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	NO3	Nitrate as N (calculated)	2.2641	mg/l	
AC05170	LM10	Little Miami Watershed	10 (3261-10)	8/9/2012	10:00	CHLOROPHYLL	Chlorophyll	126	mg/m3	1.00
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	MF_CF	Fecal Coliform, Membrane Filter	150	CFU/100mL	
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	E-COLI	E.coli (Colilert)	199	MPN	
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	TDS	Total Dissolved Solids	230	mg/L	
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	SO4	Sulfate	38.0	mg/L	12.5
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	CL	Chloride	39.5	mg/L	1.00
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	TSS	Tot. Suspended Solids	22	mg/L	2
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	SSC	Suspended Sediment Concentration	21.0	mg/L	5.0
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	HARD	Hardness as CaCO3	178	mg/l	
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	COD	COD	42	mg/L	
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	458	uS/cm	
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	TEMP_FLD	Temperature (Field) Celsius	25.77	Deg C	
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	PH_FLD	pH (Field)	7.08	S.U.	
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	DO_FLD	Dissolved Oxygen (field) mg/L	7.18	mg/l	
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	451	uS/cm	
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	\$ICP	Aluminum	1.01	mg/L	0.348
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	\$ICP	Antimony	0.00	mg/L	0.006
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	\$ICP	Arsenic	0.0349	mg/L	0.012
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	\$ICP	Barium	0.0400	mg/L	0.003
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	\$ICP	Calcium	49.0	mg/L	0.066
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	\$ICP	Chromium	0.00	mg/L	0.006
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	\$ICP	Copper	0.00660	mg/L	0.006
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	\$ICP	Iron	1.85	mg/L	0.018
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	\$ICP	Lead	0.0181	mg/L	0.006
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	\$ICP	Magnesium	11.0	mg/L	0.021
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	\$ICP	Manganese	0.210	mg/L	0.009
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	\$ICP	Nickel	0.00504	mg/L	0.003



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	\$ICP	Selenium	0.0802	mg/L	0.009
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	\$ICP	Silver	0.00	mg/L	0.003
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	\$ICP	Strontium	0.148	mg/L	0.009
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	\$ICP	Thallium	0.00	mg/L	0.012
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	\$ICP	Tin	0.00	mg/L	0.006
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	\$ICP	Zinc	0.0215	mg/L	0.006
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	AS_FU	Arsenic by Furnace	2.483	ug/L	1.0
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	CU_FU	Copper by Furnace	3.2	ug/L	1
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	NH3	Ammonia as N	0	mg/L	0.5
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	NO3NO2	Nitrate + Nitrite	3.75	mg/L	0.5
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	TKN	Total Kjeldahl Nitrogen	0.6354	mg/L	0.5
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	TKP	Total Kjeldahl Phosphorus	0.5665	mg/L	0.5
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	NO2	Nitrite as N	0.0127	mg/l	0.005
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	NO3	Nitrate as N (calculated)	3.7373	mg/l	
AC05171	LM36	Little Miami Watershed	36	8/9/2012	10:20	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	200	CFU/100mL	
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	E-COLI	E.coli (Colilert)	214	MPN	
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	TDS	Total Dissolved Solids	230	mg/L	
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	SO4	Sulfate	40.5	mg/L	12.5
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	CL	Chloride	42.3	mg/L	1.00
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	TSS	Tot. Suspended Solids	24	mg/L	2
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	SSC	Suspended Sediment Concentration	25.0	mg/L	5.0
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	HARD	Hardness as CaCO3	176	mg/l	
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	COD	COD	38	mg/L	
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	483	uS/cm	
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	25.54	Deg C	
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	PH_FLD	pH (Field)	7.24	S.U.	
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	8.51	mg/l	
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	478	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	\$ICP	Antimony	0.00	mg/L	0.006
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	\$ICP	Arsenic	0.0844	mg/L	0.012
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	\$ICP	Barium	0.0329	mg/L	0.003
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	\$ICP	Calcium	65.3	mg/L	0.066
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	\$ICP	Chromium	0.00	mg/L	0.006
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	\$ICP	Copper	0.0155	mg/L	0.006
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	\$ICP	Iron	0.218	mg/L	0.018
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	\$ICP	Lead	0.0156	mg/L	0.006
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	\$ICP	Magnesium	16.2	mg/L	0.021
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	\$ICP	Manganese	0.0285	mg/L	0.009
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	\$ICP	Nickel	0.00405	mg/L	0.003
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	\$ICP	Selenium	0.0839	mg/L	0.009
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	\$ICP	Silver	0.00	mg/L	0.003
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	\$ICP	Strontium	0.237	mg/L	0.009
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	\$ICP	Thallium	0.0255	mg/L	0.012
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	\$ICP	Tin	0.00	mg/L	0.006
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	\$ICP	Zinc	0.0465	mg/L	0.006
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	PB_FU	Lead by Furnace	7.969	ug/L	0.5
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	AS_FU	Arsenic by Furnace	2.665	ug/L	1.0
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	CU_FU	Copper by Furnace	3.3	ug/L	1
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	NO3NO2	Nitrate + Nitrite	18.98	mg/L	0.5
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	TKP	Total Kjeldahl Phosphorus	2.742	mg/L	0.5
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	NO2	Nitrite as N	0.0457	mg/l	0.005
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	NO3	Nitrate as N (calculated)	18.9343	mg/l	
AC05172	LM35	Little Miami Watershed	35	8/9/2012	11:00	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	MF_CF	Fecal Coliform, Membrane Filter	2800	CFU/100mL	
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	E-COLI	E.coli (Colilert)	1986	MPN	
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	TDS	Total Dissolved Solids	190	mg/L	
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	SO4	Sulfate	33.5	mg/L	12.5
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	CL	Chloride	26.8	mg/L	1.00
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	TSS	Tot. Suspended Solids	68	mg/L	2
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	SSC	Suspended Sediment Concentration	71.0	mg/L	5.0
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	HARD	Hardness as CaCO3	150	mg/l	
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	COD	COD	21	mg/L	
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	-74.2	uS/cm	
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	TEMP_FLD	Temperature (Field) Celsius	23.40	Deg C	
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	PH_FLD	pH (Field)	7.64	S.U.	
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	DO_FLD	Dissolved Oxygen (field) mg/L	6.91	mg/l	
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	365	uS/cm	
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	\$ICP	Aluminum	1.69	mg/L	0.348
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	\$ICP	Antimony	0.00	mg/L	0.006
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	\$ICP	Arsenic	0.0488	mg/L	0.012
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	\$ICP	Barium	0.0416	mg/L	0.003
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	\$ICP	Calcium	47.1	mg/L	0.066
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	\$ICP	Chromium	0.00	mg/L	0.006
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	\$ICP	Copper	0.00	mg/L	0.006
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	\$ICP	Iron	2.96	mg/L	0.018
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	\$ICP	Lead	0.0217	mg/L	0.006
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	\$ICP	Magnesium	10.1	mg/L	0.021
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	\$ICP	Manganese	0.148	mg/L	0.009
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	\$ICP	Nickel	0.00	mg/L	0.003
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	\$ICP	Selenium	0.0336	mg/L	0.009
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	\$ICP	Silver	0.00	mg/L	0.003
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	\$ICP	Strontium	0.162	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	\$ICP	Thallium	0.00	mg/L	0.012
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	\$ICP	Tin	0.00	mg/L	0.006
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	\$ICP	Zinc	0.0225	mg/L	0.006
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	AS_FU	Arsenic by Furnace	3.596	ug/L	1.0
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	CU_FU	Copper by Furnace	4.7	ug/L	1
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	NH3	Ammonia as N	0	mg/L	0.5
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	NO3NO2	Nitrate + Nitrite	0.961	mg/L	0.5
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	TKN	Total Kjeldahl Nitrogen	0.6698	mg/L	0.5
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	NO2	Nitrite as N	0.0121	mg/l	0.005
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	NO3	Nitrate as N (calculated)	0.9489	mg/l	
AC05280	LM31	Little Miami Watershed	31	8/10/2012	08:10	CHLOROPHYLL	Chlorophyll	3.81	mg/m3	1.00
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	MF_CF	Fecal Coliform, Membrane Filter	5700	CFU/100mL	
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	E-COLI	E.coli (Colilert)	2420	MPN	
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	TDS	Total Dissolved Solids	210	mg/L	
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	SO4	Sulfate	33.5	mg/L	12.5
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	CL	Chloride	16.7	mg/L	1.00
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	TSS	Tot. Suspended Solids	70	mg/L	2
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	SSC	Suspended Sediment Concentration	76.0	mg/L	5.0
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	HARD	Hardness as CaCO3	130	mg/l	
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	COD	COD	5	mg/L	
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	-69.2	uS/cm	
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	TEMP_FLD	Temperature (Field) Celsius	23.90	Deg C	
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	PH_FLD	pH (Field)	7.63	S.U.	
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	DO_FLD	Dissolved Oxygen (field) mg/L	6.32	mg/l	
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	288	uS/cm	
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	\$ICP	Aluminum	2.25	mg/L	0.348
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	\$ICP	Antimony	0.00	mg/L	0.006
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	\$ICP	Arsenic	0.0193	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	\$ICP	Barium	0.0394	mg/L	0.003
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	\$ICP	Calcium	38.2	mg/L	0.066
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	\$ICP	Chromium	0.00	mg/L	0.006
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	\$ICP	Copper	0.00	mg/L	0.006
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	\$ICP	Iron	3.46	mg/L	0.018
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	\$ICP	Lead	0.0114	mg/L	0.006
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	\$ICP	Magnesium	8.27	mg/L	0.021
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	\$ICP	Manganese	0.117	mg/L	0.009
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	\$ICP	Nickel	0.00451	mg/L	0.003
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	\$ICP	Selenium	0.0783	mg/L	0.009
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	\$ICP	Silver	0.00	mg/L	0.003
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	\$ICP	Strontium	0.109	mg/L	0.009
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	\$ICP	Thallium	0.0133	mg/L	0.012
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	\$ICP	Tin	0.00	mg/L	0.006
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	\$ICP	Zinc	0.0272	mg/L	0.006
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	PB_FU	Lead by Furnace	0.175	ug/L	0.5
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	AS_FU	Arsenic by Furnace	1.393	ug/L	1.0
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	CU_FU	Copper by Furnace	6.0	ug/L	1
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	NH3	Ammonia as N	0	mg/L	0.5
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	NO3NO2	Nitrate + Nitrite	1.74	mg/L	0.5
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	TKN	Total Kjeldahl Nitrogen	0.8618	mg/L	0.5
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	NO2	Nitrite as N	0.0167	mg/l	0.005
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	NO3	Nitrate as N (calculated)	1.7233	mg/l	
AC05281	LM30	Little Miami Watershed	30	8/10/2012	08:40	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	MF_CF	Fecal Coliform, Membrane Filter	800	CFU/100mL	
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	E-COLI	E.coli (Colilert)	980	MPN	
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	TDS	Total Dissolved Solids	210	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	SO4	Sulfate	36.5	mg/L	12.5
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	CL	Chloride	27.8	mg/L	1.00
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	TSS	Tot. Suspended Solids	16	mg/L	2
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	SSC	Suspended Sediment Concentration	11.0	mg/L	5.0
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	HARD	Hardness as CaCO3	154	mg/l	
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	COD	COD	97	mg/L	
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	-60.8	uS/cm	
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	TEMP_FLD	Temperature (Field) Celsius	24.19	Deg C	
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	PH_FLD	pH (Field)	7.45	S.U.	
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	DO_FLD	Dissolved Oxygen (field) mg/L	5.90	mg/l	
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	381	uS/cm	
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	\$ICP	Aluminum	0.358	mg/L	0.348
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	\$ICP	Antimony	0.00	mg/L	0.006
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	\$ICP	Arsenic	0.0189	mg/L	0.012
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	\$ICP	Barium	0.0305	mg/L	0.003
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	\$ICP	Calcium	44.5	mg/L	0.066
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	\$ICP	Chromium	0.00	mg/L	0.006
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	\$ICP	Copper	0.00	mg/L	0.006
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	\$ICP	Iron	0.604	mg/L	0.018
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	\$ICP	Lead	0.00763	mg/L	0.006
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	\$ICP	Magnesium	9.67	mg/L	0.021
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	\$ICP	Manganese	0.0938	mg/L	0.009
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	\$ICP	Nickel	0.00	mg/L	0.003
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	\$ICP	Selenium	0.0229	mg/L	0.009
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	\$ICP	Silver	0.00	mg/L	0.003
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	\$ICP	Strontium	0.140	mg/L	0.009
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	\$ICP	Thallium	0.0340	mg/L	0.012
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	\$ICP	Tin	0.00	mg/L	0.006
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	\$ICP	Vanadium	0.00	mg/L	0.018

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	\$ICP	Zinc	0.0193	mg/L	0.006
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	AS_FU	Arsenic by Furnace	1.187	ug/L	1.0
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	CU_FU	Copper by Furnace	3.1	ug/L	1
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	NH3	Ammonia as N	0	mg/L	0.5
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	NO3NO2	Nitrate + Nitrite	4.06	mg/L	0.5
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	TKN	Total Kjeldahl Nitrogen	0.6319	mg/L	0.5
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	NO2	Nitrite as N	0.0150	mg/l	0.005
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	NO3	Nitrate as N (calculated)	4.0450	mg/l	
AC05282	LM29	Little Miami Watershed	29	8/10/2012	09:00	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	MF_CF	Fecal Coliform, Membrane Filter	1500	CFU/100mL	
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	E-COLI	E.coli (Colilert)	1300	MPN	
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	TDS	Total Dissolved Solids	160	mg/L	
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	SO4	Sulfate	24.3	mg/L	12.5
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	CL	Chloride	15.9	mg/L	1.00
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	TSS	Tot. Suspended Solids	22	mg/L	2
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	SSC	Suspended Sediment Concentration	8.0	mg/L	5.0
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	HARD	Hardness as CaCO3	136	mg/l	
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	COD	COD	16	mg/L	
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	-60.5	uS/cm	
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	TEMP_FLD	Temperature (Field) Celsius	24.10	Deg C	
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	PH_FLD	pH (Field)	7.48	S.U.	
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	DO_FLD	Dissolved Oxygen (field) mg/L	6.81	mg/l	
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	277	uS/cm	
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	\$ICP	Aluminum	0.00	mg/L	0.348
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	\$ICP	Antimony	0.00626	mg/L	0.006
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	\$ICP	Arsenic	0.0431	mg/L	0.012
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	\$ICP	Barium	0.0275	mg/L	0.003
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	\$ICP	Cadmium	0.00	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	\$ICP	Calcium	36.6	mg/L	0.066
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	\$ICP	Chromium	0.00	mg/L	0.006
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	\$ICP	Copper	0.00	mg/L	0.006
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	\$ICP	Iron	0.340	mg/L	0.018
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	\$ICP	Lead	0.00	mg/L	0.006
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	\$ICP	Magnesium	8.43	mg/L	0.021
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	\$ICP	Manganese	0.0672	mg/L	0.009
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	\$ICP	Nickel	0.00306	mg/L	0.003
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	\$ICP	Selenium	0.0655	mg/L	0.009
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	\$ICP	Silver	0.00	mg/L	0.003
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	\$ICP	Strontium	0.102	mg/L	0.009
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	\$ICP	Thallium	0.0676	mg/L	0.012
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	\$ICP	Tin	0.00	mg/L	0.006
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	\$ICP	Zinc	0.0120	mg/L	0.006
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	AS_FU	Arsenic by Furnace	2.266	ug/L	1.0
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	CU_FU	Copper by Furnace	1.9	ug/L	1
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	NH3	Ammonia as N	0	mg/L	0.5
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	NO3NO2	Nitrate + Nitrite	0.504	mg/L	0.5
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	TKN	Total Kjeldahl Nitrogen	0.4903	mg/L	0.5
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	NO2	Nitrite as N	0.0092	mg/l	0.005
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	NO3	Nitrate as N (calculated)	0.4948	mg/l	
AC05283	LM28	Little Miami Watershed	28	8/10/2012	09:20	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	MF_CF	Fecal Coliform, Membrane Filter	5400	CFU/100mL	
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	E-COLI	E.coli (Colilert)	488	MPN	
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	TDS	Total Dissolved Solids	200	mg/L	
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	SO4	Sulfate	22.2	mg/L	5.0
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	CL	Chloride	15.4	mg/L	1.00



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	TSS	Tot. Suspended Solids	14	mg/L	2
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	SSC	Suspended Sediment Concentration	12.0	mg/L	5.0
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	HARD	Hardness as CaCO3	126	mg/l	
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	COD	COD	15	mg/L	
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	-63.1	uS/cm	
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	TEMP_FLD	Temperature (Field) Celsius	23.87	Deg C	
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	PH_FLD	pH (Field)	7.51	S.U.	
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	DO_FLD	Dissolved Oxygen (field) mg/L	7.10	mg/l	
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	275	uS/cm	
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	\$ICP	Antimony	0.00	mg/L	0.006
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	\$ICP	Arsenic	0.0209	mg/L	0.012
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	\$ICP	Barium	0.0289	mg/L	0.003
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	\$ICP	Calcium	37.7	mg/L	0.066
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	\$ICP	Chromium	0.00	mg/L	0.006
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	\$ICP	Copper	0.00	mg/L	0.006
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	\$ICP	Iron	0.405	mg/L	0.018
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	\$ICP	Lead	0.0198	mg/L	0.006
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	\$ICP	Magnesium	8.75	mg/L	0.021
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	\$ICP	Manganese	0.0701	mg/L	0.009
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	\$ICP	Nickel	0.00	mg/L	0.003
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	\$ICP	Selenium	0.0502	mg/L	0.009
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	\$ICP	Silver	0.00	mg/L	0.003
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	\$ICP	Strontium	0.103	mg/L	0.009
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	\$ICP	Thallium	0.0416	mg/L	0.012
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	\$ICP	Tin	0.00	mg/L	0.006
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	\$ICP	Zinc	0.0359	mg/L	0.006
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	AS_FU	Arsenic by Furnace	3.340	ug/L	1.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	CU_FU	Copper by Furnace	3.3	ug/L	1
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	NH3	Ammonia as N	0	mg/L	0.5
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	NO3NO2	Nitrate + Nitrite	6.03	mg/L	0.5
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	TKN	Total Kjeldahl Nitrogen	0.4822	mg/L	0.5
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	NO2	Nitrite as N	0.0082	mg/l	0.005
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	NO3	Nitrate as N (calculated)	6.0218	mg/l	
AC05284	LM27	Little Miami Watershed	27	8/10/2012	09:40	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	200	CFU/100mL	
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	E-COLI	E.coli (Colilert)	179	MPN	
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	TDS	Total Dissolved Solids	200	mg/L	
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	SO4	Sulfate	21.5	mg/L	5.0
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	CL	Chloride	14.1	mg/L	1.00
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	TSS	Tot. Suspended Solids	6	mg/L	2
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	SSC	Suspended Sediment Concentration	8.0	mg/L	5.0
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	HARD	Hardness as CaCO3	126	mg/l	
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	COD	COD	22	mg/L	
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	-59.1	uS/cm	
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	23.60	Deg C	
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	PH_FLD	pH (Field)	7.46	S.U.	
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	6.90	mg/l	
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	262	uS/cm	
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	\$ICP	Antimony	0.00	mg/L	0.006
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	\$ICP	Arsenic	0.0461	mg/L	0.012
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	\$ICP	Barium	0.0264	mg/L	0.003
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	\$ICP	Calcium	34.1	mg/L	0.066
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	\$ICP	Chromium	0.00	mg/L	0.006
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	\$ICP	Cobalt	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	\$ICP	Copper	0.00	mg/L	0.006
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	\$ICP	Iron	0.218	mg/L	0.018
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	\$ICP	Lead	0.0123	mg/L	0.006
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	\$ICP	Magnesium	8.15	mg/L	0.021
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	\$ICP	Manganese	0.0737	mg/L	0.009
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	\$ICP	Nickel	0.00	mg/L	0.003
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	\$ICP	Selenium	0.0764	mg/L	0.009
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	\$ICP	Silver	0.00	mg/L	0.003
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	\$ICP	Strontium	0.0939	mg/L	0.009
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	\$ICP	Thallium	0.00	mg/L	0.012
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	\$ICP	Tin	0.00	mg/L	0.006
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	\$ICP	Zinc	0.00793	mg/L	0.006
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	AS_FU	Arsenic by Furnace	2.744	ug/L	1.0
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	CU_FU	Copper by Furnace	1.6	ug/L	1
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	TKN	Total Kjeldahl Nitrogen	0.4413	mg/L	0.5
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	NO2	Nitrite as N	0.0073	mg/l	0.005
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC05285	LM26	Little Miami Watershed	26	8/10/2012	10:00	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	MF_CF	Fecal Coliform, Membrane Filter	36	CFU/100mL	
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	E-COLI	E.coli (Colilert)	20	MPN	
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	TDS	Total Dissolved Solids	140	mg/L	
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	SO4	Sulfate	20.7	mg/L	5.0
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	CL	Chloride	14.0	mg/L	1.00
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	TSS	Tot. Suspended Solids	6	mg/L	2
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	HARD	Hardness as CaCO3	120	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	COD	COD	22	mg/L	
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	-56.9	uS/cm	
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	TEMP_FLD	Temperature (Field) Celsius	22.85	Deg C	
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	PH_FLD	pH (Field)	7.41	S.U.	
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	DO_FLD	Dissolved Oxygen (field) mg/L	7.30.	mg/l	
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	252	uS/cm	
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	\$ICP	Aluminum	0.00	mg/L	0.348
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	\$ICP	Antimony	0.00	mg/L	0.006
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	\$ICP	Arsenic	0.00	mg/L	0.012
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	\$ICP	Barium	0.0267	mg/L	0.003
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	\$ICP	Calcium	32.7	mg/L	0.066
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	\$ICP	Chromium	0.00	mg/L	0.006
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	\$ICP	Copper	0.00	mg/L	0.006
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	\$ICP	Iron	0.170	mg/L	0.018
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	\$ICP	Lead	0.0113	mg/L	0.006
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	\$ICP	Magnesium	8.22	mg/L	0.021
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	\$ICP	Manganese	0.0749	mg/L	0.009
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	\$ICP	Nickel	0.00	mg/L	0.003
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	\$ICP	Selenium	0.0392	mg/L	0.009
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	\$ICP	Silver	0.00	mg/L	0.003
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	\$ICP	Strontium	0.0892	mg/L	0.009
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	\$ICP	Thallium	0.0276	mg/L	0.012
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	\$ICP	Tin	0.00	mg/L	0.006
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	\$ICP	Zinc	0.00794	mg/L	0.006
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	AS_FU	Arsenic by Furnace	2.453	ug/L	1.0
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	CU_FU	Copper by Furnace	1.3	ug/L	1
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	NH3	Ammonia as N	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	TKN	Total Kjeldahl Nitrogen	0.4886	mg/L	0.5
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	NO2	Nitrite as N	0.0204	mg/l	0.005
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	NO3	Nitrate as N (calculated)	AW	mg/l	
AC05286	LM25	Little Miami Watershed	25	8/10/2012	10:15	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC05347	LM01	Little Miami Watershed	1	8/13/2012	09:45	MF_CF	Fecal Coliform, Membrane Filter	121	CFU/100mL	
AC05347	LM01	Little Miami Watershed	1	8/13/2012	09:45	E-COLI	E.coli (Colilert)	56	MPN	
AC05347	LM01	Little Miami Watershed	1	8/13/2012	09:45	TDS	Total Dissolved Solids	470	mg/L	
AC05347	LM01	Little Miami Watershed	1	8/13/2012	09:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05347	LM01	Little Miami Watershed	1	8/13/2012	09:45	SO4	Sulfate	67.2	mg/L	12.5
AC05347	LM01	Little Miami Watershed	1	8/13/2012	09:45	CL	Chloride	83.8	mg/L	2.0
AC05347	LM01	Little Miami Watershed	1	8/13/2012	09:45	TSS	Tot. Suspended Solids	26	mg/L	2
AC05347	LM01	Little Miami Watershed	1	8/13/2012	09:45	SSC	Suspended Sediment Concentration	15.0	mg/L	5.0
AC05347	LM01	Little Miami Watershed	1	8/13/2012	09:45	HARD	Hardness as CaCO3	298	mg/l	
AC05347	LM01	Little Miami Watershed	1	8/13/2012	09:45	COD	COD	39	mg/L	
AC05347	LM01	Little Miami Watershed	1	8/13/2012	09:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1041	uS/cm	
AC05347	LM01	Little Miami Watershed	1	8/13/2012	09:45	TEMP_FLD	Temperature (Field) Celsius	23.77	Deg C	
AC05347	LM01	Little Miami Watershed	1	8/13/2012	09:45	PH_FLD	pH (Field)	8.06	S.U.	
AC05347	LM01	Little Miami Watershed	1	8/13/2012	09:45	DO_FLD	Dissolved Oxygen (field) mg/L	8.11	mg/l	
AC05347	LM01	Little Miami Watershed	1	8/13/2012	09:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	1067	uS/cm	
AC05347	LM01	Little Miami Watershed	1	8/13/2012	09:45	NH3	Ammonia as N	0	mg/L	0.5
AC05347	LM01	Little Miami Watershed	1	8/13/2012	09:45	NO3NO2	Nitrate + Nitrite	4.22	mg/L	0.5
AC05347	LM01	Little Miami Watershed	1	8/13/2012	09:45	TKN	Total Kjeldahl Nitrogen	0.9178	mg/L	0.5
AC05347	LM01	Little Miami Watershed	1	8/13/2012	09:45	TKP	Total Kjeldahl Phosphorus	0.5677	mg/L	0.5
AC05347	LM01	Little Miami Watershed	1	8/13/2012	09:45	NO2	Nitrite as N	0.0257	mg/l	0.005
AC05347	LM01	Little Miami Watershed	1	8/13/2012	09:45	NO3	Nitrate as N (calculated)	4.1943	mg/l	
AC05347	LM01	Little Miami Watershed	1	8/13/2012	09:45	CHLOROPHYLL	Chlorophyll	6.94	mg/m3	1.00
AC05348	LM02	Little Miami Watershed	2 (3261-09)	8/13/2012	10:05	MF_CF	Fecal Coliform, Membrane Filter	29	CFU/100mL	
AC05348	LM02	Little Miami Watershed	2 (3261-09)	8/13/2012	10:05	E-COLI	E.coli (Colilert)	99	MPN	
AC05348	LM02	Little Miami Watershed	2 (3261-09)	8/13/2012	10:05	TDS	Total Dissolved Solids	460	mg/L	
AC05348	LM02	Little Miami Watershed	2 (3261-09)	8/13/2012	10:05	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05348	LM02	Little Miami Watershed	2 (3261-09)	8/13/2012	10:05	SO4	Sulfate	59.0	mg/L	25.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05348	LM02	Little Miami Watershed	2 (3261-09)	8/13/2012	10:05	CL	Chloride	245	mg/L	4.0
AC05348	LM02	Little Miami Watershed	2 (3261-09)	8/13/2012	10:05	TSS	Tot. Suspended Solids	22	mg/L	2
AC05348	LM02	Little Miami Watershed	2 (3261-09)	8/13/2012	10:05	SSC	Suspended Sediment Concentration	19.0	mg/L	5.0
AC05348	LM02	Little Miami Watershed	2 (3261-09)	8/13/2012	10:05	HARD	Hardness as CaCO3	300	mg/l	
AC05348	LM02	Little Miami Watershed	2 (3261-09)	8/13/2012	10:05	COD	COD	49	mg/L	
AC05348	LM02	Little Miami Watershed	2 (3261-09)	8/13/2012	10:05	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	876	uS/cm	
AC05348	LM02	Little Miami Watershed	2 (3261-09)	8/13/2012	10:05	TEMP_FLD	Temperature (Field) Celsius	24.24	Deg C	
AC05348	LM02	Little Miami Watershed	2 (3261-09)	8/13/2012	10:05	PH_FLD	pH (Field)	8.03	S.U.	
AC05348	LM02	Little Miami Watershed	2 (3261-09)	8/13/2012	10:05	DO_FLD	Dissolved Oxygen (field) mg/L	8.07	mg/l	
AC05348	LM02	Little Miami Watershed	2 (3261-09)	8/13/2012	10:05	CONDUCTIVITY	Specific Conductivity (uS/cm)	889	uS/cm	
AC05348	LM02	Little Miami Watershed	2 (3261-09)	8/13/2012	10:05	NH3	Ammonia as N	0	mg/L	0.5
AC05348	LM02	Little Miami Watershed	2 (3261-09)	8/13/2012	10:05	NO3NO2	Nitrate + Nitrite	2.04	mg/L	0.5
AC05348	LM02	Little Miami Watershed	2 (3261-09)	8/13/2012	10:05	TKN	Total Kjeldahl Nitrogen	0.7261	mg/L	0.5
AC05348	LM02	Little Miami Watershed	2 (3261-09)	8/13/2012	10:05	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05348	LM02	Little Miami Watershed	2 (3261-09)	8/13/2012	10:05	NO2	Nitrite as N	0.0214	mg/l	0.005
AC05348	LM02	Little Miami Watershed	2 (3261-09)	8/13/2012	10:05	NO3	Nitrate as N (calculated)	2.0186	mg/l	
AC05348	LM02	Little Miami Watershed	2 (3261-09)	8/13/2012	10:05	CHLOROPHYLL	Chlorophyll	12.8	mg/m3	1.00
AC05349	LM03	Little Miami Watershed	3	8/13/2012	10:20	MF_CF	Fecal Coliform, Membrane Filter	100	CFU/100mL	
AC05349	LM03	Little Miami Watershed	3	8/13/2012	10:20	E-COLI	E.coli (Colilert)	70	MPN	
AC05349	LM03	Little Miami Watershed	3	8/13/2012	10:20	TDS	Total Dissolved Solids	440	mg/L	
AC05349	LM03	Little Miami Watershed	3	8/13/2012	10:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05349	LM03	Little Miami Watershed	3	8/13/2012	10:20	SO4	Sulfate	55.5	mg/L	12.5
AC05349	LM03	Little Miami Watershed	3	8/13/2012	10:20	CL	Chloride	108	mg/L	1.00
AC05349	LM03	Little Miami Watershed	3	8/13/2012	10:20	TSS	Tot. Suspended Solids	28	mg/L	2
AC05349	LM03	Little Miami Watershed	3	8/13/2012	10:20	SSC	Suspended Sediment Concentration	21.0	mg/L	5.0
AC05349	LM03	Little Miami Watershed	3	8/13/2012	10:20	HARD	Hardness as CaCO3	288	mg/l	
AC05349	LM03	Little Miami Watershed	3	8/13/2012	10:20	COD	COD	39	mg/L	
AC05349	LM03	Little Miami Watershed	3	8/13/2012	10:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	835	uS/cm	
AC05349	LM03	Little Miami Watershed	3	8/13/2012	10:20	TEMP_FLD	Temperature (Field) Celsius	24.17	Deg C	
AC05349	LM03	Little Miami Watershed	3	8/13/2012	10:20	PH_FLD	pH (Field)	8.04	S.U.	
AC05349	LM03	Little Miami Watershed	3	8/13/2012	10:20	DO_FLD	Dissolved Oxygen (field) mg/L	8.09	mg/l	
AC05349	LM03	Little Miami Watershed	3	8/13/2012	10:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	848	uS/cm	
AC05349	LM03	Little Miami Watershed	3	8/13/2012	10:20	NH3	Ammonia as N	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05349	LM03	Little Miami Watershed	3	8/13/2012	10:20	NO3NO2	Nitrate + Nitrite	1.82	mg/L	0.5
AC05349	LM03	Little Miami Watershed	3	8/13/2012	10:20	TKN	Total Kjeldahl Nitrogen	0.6467	mg/L	0.5
AC05349	LM03	Little Miami Watershed	3	8/13/2012	10:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05349	LM03	Little Miami Watershed	3	8/13/2012	10:20	NO2	Nitrite as N	0.0227	mg/l	0.005
AC05349	LM03	Little Miami Watershed	3	8/13/2012	10:20	NO3	Nitrate as N (calculated)	1.7973	mg/l	
AC05349	LM03	Little Miami Watershed	3	8/13/2012	10:20	CHLOROPHYLL	Chlorophyll	14.4	mg/m3	1.00
AC05350	LM04	Little Miami Watershed	4	8/13/2012	10:35	MF_CF	Fecal Coliform, Membrane Filter	480	CFU/100mL	
AC05350	LM04	Little Miami Watershed	4	8/13/2012	10:35	E-COLI	E.coli (Colilert)	137	MPN	
AC05350	LM04	Little Miami Watershed	4	8/13/2012	10:35	TDS	Total Dissolved Solids	440	mg/L	
AC05350	LM04	Little Miami Watershed	4	8/13/2012	10:35	BOD	Biochemical Oxygen Demand	8	mg/L	2
AC05350	LM04	Little Miami Watershed	4	8/13/2012	10:35	SO4	Sulfate	81.0	mg/L	25.0
AC05350	LM04	Little Miami Watershed	4	8/13/2012	10:35	CL	Chloride	80.7	mg/L	2.0
AC05350	LM04	Little Miami Watershed	4	8/13/2012	10:35	TSS	Tot. Suspended Solids	28	mg/L	2
AC05350	LM04	Little Miami Watershed	4	8/13/2012	10:35	SSC	Suspended Sediment Concentration	21.0	mg/L	5.0
AC05350	LM04	Little Miami Watershed	4	8/13/2012	10:35	HARD	Hardness as CaCO3	280	mg/l	
AC05350	LM04	Little Miami Watershed	4	8/13/2012	10:35	COD	COD	51	mg/L	
AC05350	LM04	Little Miami Watershed	4	8/13/2012	10:35	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1045	uS/cm	
AC05350	LM04	Little Miami Watershed	4	8/13/2012	10:35	TEMP_FLD	Temperature (Field) Celsius	23.14	Deg C	
AC05350	LM04	Little Miami Watershed	4	8/13/2012	10:35	PH_FLD	pH (Field)	7.09	S.U.	
AC05350	LM04	Little Miami Watershed	4	8/13/2012	10:35	DO_FLD	Dissolved Oxygen (field) mg/L	7.46	mg/l	
AC05350	LM04	Little Miami Watershed	4	8/13/2012	10:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	1083	uS/cm	
AC05350	LM04	Little Miami Watershed	4	8/13/2012	10:35	NH3	Ammonia as N	1.615	mg/L	0.5
AC05350	LM04	Little Miami Watershed	4	8/13/2012	10:35	NO3NO2	Nitrate + Nitrite	6.63	mg/L	0.5
AC05350	LM04	Little Miami Watershed	4	8/13/2012	10:35	TKN	Total Kjeldahl Nitrogen	3.375	mg/L	0.5
AC05350	LM04	Little Miami Watershed	4	8/13/2012	10:35	TKP	Total Kjeldahl Phosphorus	1.192	mg/L	0.5
AC05350	LM04	Little Miami Watershed	4	8/13/2012	10:35	NO2	Nitrite as N	0.2016	mg/l	0.005
AC05350	LM04	Little Miami Watershed	4	8/13/2012	10:35	NO3	Nitrate as N (calculated)	6.4284	mg/l	
AC05350	LM04	Little Miami Watershed	4	8/13/2012	10:35	CHLOROPHYLL	Chlorophyll	20.3	mg/m3	1.00
AC05351	LM05	Little Miami Watershed	5 (3261-08)	8/13/2012	10:50	MF_CF	Fecal Coliform, Membrane Filter	260	CFU/100mL	
AC05351	LM05	Little Miami Watershed	5 (3261-08)	8/13/2012	10:50	E-COLI	E.coli (Colilert)	73	MPN	
AC05351	LM05	Little Miami Watershed	5 (3261-08)	8/13/2012	10:50	TDS	Total Dissolved Solids	430	mg/L	
AC05351	LM05	Little Miami Watershed	5 (3261-08)	8/13/2012	10:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05351	LM05	Little Miami Watershed	5 (3261-08)	8/13/2012	10:50	SO4	Sulfate	54.0	mg/L	12.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05351	LM05	Little Miami Watershed	5 (3261-08)	8/13/2012	10:50	CL	Chloride	108	mg/L	1.00
AC05351	LM05	Little Miami Watershed	5 (3261-08)	8/13/2012	10:50	TSS	Tot. Suspended Solids	30	mg/L	2
AC05351	LM05	Little Miami Watershed	5 (3261-08)	8/13/2012	10:50	SSC	Suspended Sediment Concentration	23.0	mg/L	5.0
AC05351	LM05	Little Miami Watershed	5 (3261-08)	8/13/2012	10:50	HARD	Hardness as CaCO3	292	mg/l	
AC05351	LM05	Little Miami Watershed	5 (3261-08)	8/13/2012	10:50	COD	COD	47	mg/L	
AC05351	LM05	Little Miami Watershed	5 (3261-08)	8/13/2012	10:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	847	uS/cm	
AC05351	LM05	Little Miami Watershed	5 (3261-08)	8/13/2012	10:50	TEMP_FLD	Temperature (Field) Celsius	23.94	Deg C	
AC05351	LM05	Little Miami Watershed	5 (3261-08)	8/13/2012	10:50	PH_FLD	pH (Field)	8.06	S.U.	
AC05351	LM05	Little Miami Watershed	5 (3261-08)	8/13/2012	10:50	DO_FLD	Dissolved Oxygen (field) mg/L	8.07	mg/l	
AC05351	LM05	Little Miami Watershed	5 (3261-08)	8/13/2012	10:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	865	uS/cm	
AC05351	LM05	Little Miami Watershed	5 (3261-08)	8/13/2012	10:50	NH3	Ammonia as N	0	mg/L	0.5
AC05351	LM05	Little Miami Watershed	5 (3261-08)	8/13/2012	10:50	NO3NO2	Nitrate + Nitrite	1.92	mg/L	0.5
AC05351	LM05	Little Miami Watershed	5 (3261-08)	8/13/2012	10:50	TKN	Total Kjeldahl Nitrogen	0.8680	mg/L	0.5
AC05351	LM05	Little Miami Watershed	5 (3261-08)	8/13/2012	10:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05351	LM05	Little Miami Watershed	5 (3261-08)	8/13/2012	10:50	NO2	Nitrite as N	0.0278	mg/l	0.005
AC05351	LM05	Little Miami Watershed	5 (3261-08)	8/13/2012	10:50	NO3	Nitrate as N (calculated)	1.8922	mg/l	
AC05351	LM05	Little Miami Watershed	5 (3261-08)	8/13/2012	10:50	CHLOROPHYLL	Chlorophyll	18.2	mg/m3	1.00
AC05352	LM06	Little Miami Watershed	6 (3261-07)	8/13/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	79	CFU/100mL	
AC05352	LM06	Little Miami Watershed	6 (3261-07)	8/13/2012	11:00	E-COLI	E.coli (Colilert)	84	MPN	
AC05352	LM06	Little Miami Watershed	6 (3261-07)	8/13/2012	11:00	TDS	Total Dissolved Solids	480	mg/L	
AC05352	LM06	Little Miami Watershed	6 (3261-07)	8/13/2012	11:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05352	LM06	Little Miami Watershed	6 (3261-07)	8/13/2012	11:00	SO4	Sulfate	57.5	mg/L	12.5
AC05352	LM06	Little Miami Watershed	6 (3261-07)	8/13/2012	11:00	CL	Chloride	110	mg/L	1.00
AC05352	LM06	Little Miami Watershed	6 (3261-07)	8/13/2012	11:00	TSS	Tot. Suspended Solids	40	mg/L	2
AC05352	LM06	Little Miami Watershed	6 (3261-07)	8/13/2012	11:00	SSC	Suspended Sediment Concentration	31.0	mg/L	5.0
AC05352	LM06	Little Miami Watershed	6 (3261-07)	8/13/2012	11:00	HARD	Hardness as CaCO3	300	mg/l	
AC05352	LM06	Little Miami Watershed	6 (3261-07)	8/13/2012	11:00	COD	COD	34	mg/L	
AC05352	LM06	Little Miami Watershed	6 (3261-07)	8/13/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	871	uS/cm	
AC05352	LM06	Little Miami Watershed	6 (3261-07)	8/13/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	24.41	Deg C	
AC05352	LM06	Little Miami Watershed	6 (3261-07)	8/13/2012	11:00	PH_FLD	pH (Field)	7.77	S.U.	
AC05352	LM06	Little Miami Watershed	6 (3261-07)	8/13/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	6.45	mg/l	
AC05352	LM06	Little Miami Watershed	6 (3261-07)	8/13/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	881	uS/cm	
AC05352	LM06	Little Miami Watershed	6 (3261-07)	8/13/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05352	LM06	Little Miami Watershed	6 (3261-07)	8/13/2012	11:00	NO3NO2	Nitrate + Nitrite	2.13	mg/L	0.5
AC05352	LM06	Little Miami Watershed	6 (3261-07)	8/13/2012	11:00	TKN	Total Kjeldahl Nitrogen	1.028	mg/L	0.5
AC05352	LM06	Little Miami Watershed	6 (3261-07)	8/13/2012	11:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05352	LM06	Little Miami Watershed	6 (3261-07)	8/13/2012	11:00	NO2	Nitrite as N	0.0374	mg/l	0.005
AC05352	LM06	Little Miami Watershed	6 (3261-07)	8/13/2012	11:00	NO3	Nitrate as N (calculated)	2.0926	mg/l	
AC05352	LM06	Little Miami Watershed	6 (3261-07)	8/13/2012	11:00	CHLOROPHYLL	Chlorophyll	28.8	mg/m3	1.00
AC05353	LM08	Little Miami Watershed	8 (3261-06)	8/13/2012	11:20	MF_CF	Fecal Coliform, Membrane Filter	64	CFU/100mL	
AC05353	LM08	Little Miami Watershed	8 (3261-06)	8/13/2012	11:20	E-COLI	E.coli (Colilert)	68	MPN	
AC05353	LM08	Little Miami Watershed	8 (3261-06)	8/13/2012	11:20	TDS	Total Dissolved Solids	450	mg/L	
AC05353	LM08	Little Miami Watershed	8 (3261-06)	8/13/2012	11:20	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC05353	LM08	Little Miami Watershed	8 (3261-06)	8/13/2012	11:20	SO4	Sulfate	58.5	mg/L	12.5
AC05353	LM08	Little Miami Watershed	8 (3261-06)	8/13/2012	11:20	CL	Chloride	109	mg/L	1.00
AC05353	LM08	Little Miami Watershed	8 (3261-06)	8/13/2012	11:20	TSS	Tot. Suspended Solids	36	mg/L	2
AC05353	LM08	Little Miami Watershed	8 (3261-06)	8/13/2012	11:20	SSC	Suspended Sediment Concentration	28.0	mg/L	5.0
AC05353	LM08	Little Miami Watershed	8 (3261-06)	8/13/2012	11:20	HARD	Hardness as CaCO3	284	mg/l	
AC05353	LM08	Little Miami Watershed	8 (3261-06)	8/13/2012	11:20	COD	COD	53	mg/L	
AC05353	LM08	Little Miami Watershed	8 (3261-06)	8/13/2012	11:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	868	uS/cm	
AC05353	LM08	Little Miami Watershed	8 (3261-06)	8/13/2012	11:20	TEMP_FLD	Temperature (Field) Celsius	24.88	Deg C	
AC05353	LM08	Little Miami Watershed	8 (3261-06)	8/13/2012	11:20	PH_FLD	pH (Field)	8.04	S.U.	
AC05353	LM08	Little Miami Watershed	8 (3261-06)	8/13/2012	11:20	DO_FLD	Dissolved Oxygen (field) mg/L	8.37	mg/l	
AC05353	LM08	Little Miami Watershed	8 (3261-06)	8/13/2012	11:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	870	uS/cm	
AC05353	LM08	Little Miami Watershed	8 (3261-06)	8/13/2012	11:20	NH3	Ammonia as N	0	mg/L	0.5
AC05353	LM08	Little Miami Watershed	8 (3261-06)	8/13/2012	11:20	NO3NO2	Nitrate + Nitrite	1.92	mg/L	0.5
AC05353	LM08	Little Miami Watershed	8 (3261-06)	8/13/2012	11:20	TKN	Total Kjeldahl Nitrogen	0.8632	mg/L	0.5
AC05353	LM08	Little Miami Watershed	8 (3261-06)	8/13/2012	11:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05353	LM08	Little Miami Watershed	8 (3261-06)	8/13/2012	11:20	NO2	Nitrite as N	0.0341	mg/l	0.005
AC05353	LM08	Little Miami Watershed	8 (3261-06)	8/13/2012	11:20	NO3	Nitrate as N (calculated)	1.8859	mg/l	
AC05353	LM08	Little Miami Watershed	8 (3261-06)	8/13/2012	11:20	CHLOROPHYLL	Chlorophyll	25.1	mg/m3	1.00
AC05395	LM07	Little Miami Watershed	7	8/14/2012	08:05	MF_CF	Fecal Coliform, Membrane Filter	79	CFU/100mL	
AC05395	LM07	Little Miami Watershed	7	8/14/2012	08:05	E-COLI	E.coli (Colilert)	96	MPN	
AC05395	LM07	Little Miami Watershed	7	8/14/2012	08:05	TDS	Total Dissolved Solids	520	mg/L	
AC05395	LM07	Little Miami Watershed	7	8/14/2012	08:05	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05395	LM07	Little Miami Watershed	7	8/14/2012	08:05	SO4	Sulfate	60.8	mg/L	12.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05395	LM07	Little Miami Watershed	7	8/14/2012	08:05	CL	Chloride	236	mg/L	4.0
AC05395	LM07	Little Miami Watershed	7	8/14/2012	08:05	TSS	Tot. Suspended Solids	64	mg/L	2
AC05395	LM07	Little Miami Watershed	7	8/14/2012	08:05	SSC	Suspended Sediment Concentration	62.0	mg/L	5.0
AC05395	LM07	Little Miami Watershed	7	8/14/2012	08:05	HARD	Hardness as CaCO3	300	mg/l	
AC05395	LM07	Little Miami Watershed	7	8/14/2012	08:05	COD	COD	39	mg/L	
AC05395	LM07	Little Miami Watershed	7	8/14/2012	08:05	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	838	uS/cm	
AC05395	LM07	Little Miami Watershed	7	8/14/2012	08:05	TEMP_FLD	Temperature (Field) Celsius	23.24	Deg C	
AC05395	LM07	Little Miami Watershed	7	8/14/2012	08:05	PH_FLD	pH (Field)	7.69	S.U.	
AC05395	LM07	Little Miami Watershed	7	8/14/2012	08:05	DO_FLD	Dissolved Oxygen (field) mg/L	5.18	mg/l	
AC05395	LM07	Little Miami Watershed	7	8/14/2012	08:05	CONDUCTIVITY	Specific Conductivity (uS/cm)	867	uS/cm	
AC05395	LM07	Little Miami Watershed	7	8/14/2012	08:05	NH3	Ammonia as N	0	mg/L	0.5
AC05395	LM07	Little Miami Watershed	7	8/14/2012	08:05	NO3NO2	Nitrate + Nitrite	1.81	mg/L	0.5
AC05395	LM07	Little Miami Watershed	7	8/14/2012	08:05	TKN	Total Kjeldahl Nitrogen	1.072	mg/L	0.5
AC05395	LM07	Little Miami Watershed	7	8/14/2012	08:05	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05395	LM07	Little Miami Watershed	7	8/14/2012	08:05	NO2	Nitrite as N	0.0445	mg/l	0.005
AC05395	LM07	Little Miami Watershed	7	8/14/2012	08:05	NO3	Nitrate as N (calculated)	1.7655	mg/l	
AC05395	LM07	Little Miami Watershed	7	8/14/2012	08:05	CHLOROPHYLL	Chlorophyll	17.1	mg/m3	1.00
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	MF_CF	Fecal Coliform, Membrane Filter	4300	CFU/100mL	
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	E-COLI	E.coli (Colilert)	2420	MPN	
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	TDS	Total Dissolved Solids	610	mg/L	
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	BOD	Biochemical Oxygen Demand	7	mg/L	2
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	SO4	Sulfate	138	mg/L	25.0
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	CL	Chloride	180	mg/L	4.0
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	TSS	Tot. Suspended Solids	366	mg/L	2
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	SSC	Suspended Sediment Concentration	439	mg/L	5.0
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	HARD	Hardness as CaCO3	274	mg/l	
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	COD	COD	190	mg/L	
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1017	uS/cm	
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	TEMP_FLD	Temperature (Field) Celsius	21.11	Deg C	
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	PH_FLD	pH (Field)	7.79	S.U.	
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	DO_FLD	Dissolved Oxygen (field) mg/L	7.25	mg/l	
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	1099	uS/cm	
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	§ICP	Aluminum	1.76	mg/L	0.348

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	\$ICP	Antimony	0.0269	mg/L	0.006
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	\$ICP	Arsenic	0.511	mg/L	0.012
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	\$ICP	Barium	0.218	mg/L	0.003
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	\$ICP	Calcium	133	mg/L	0.066
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	\$ICP	Chromium	0.0455	mg/L	0.006
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	\$ICP	Cobalt	0.0418	mg/L	0.006
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	\$ICP	Copper	0.180	mg/L	0.006
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	\$ICP	Iron	7.17	mg/L	0.018
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	\$ICP	Lead	0.0920	mg/L	0.006
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	\$ICP	Magnesium	35.5	mg/L	0.021
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	\$ICP	Manganese	0.317	mg/L	0.009
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	\$ICP	Nickel	0.257	mg/L	0.003
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	\$ICP	Selenium	0.189	mg/L	0.009
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	\$ICP	Silver	0.00	mg/L	0.003
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	\$ICP	Strontium	0.520	mg/L	0.009
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	\$ICP	Thallium	0.0335	mg/L	0.012
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	\$ICP	Tin	0.00	mg/L	0.006
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	\$ICP	Zinc	0.326	mg/L	0.006
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	AS_FU	Arsenic by Furnace	1.955	ug/L	1.0
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	CD_FU	Cadmium by Furnace	7.3	ug/L	1
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	CU_FU	Copper by Furnace	375	ug/L	1
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	NH3	Ammonia as N	0	mg/L	0.5
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	NO3NO2	Nitrate + Nitrite	0.5785	mg/L	0.5
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	TKN	Total Kjeldahl Nitrogen	2.949	mg/L	0.5
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	TKP	Total Kjeldahl Phosphorus	0.8474	mg/L	0.5
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	NO2	Nitrite as N	0.0527	mg/l	0.005
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	NO3	Nitrate as N (calculated)	0.5258	mg/l	
AC05396	LM78	Little Miami Watershed	78	8/14/2012	08:45	CHLOROPHYLL	Chlorophyll	237	mg/m3	1.00
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	MF_CF	Fecal Coliform, Membrane Filter	270	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	E-COLI	E.coli (Colilert)	291	MPN	
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	TDS	Total Dissolved Solids	620	mg/L	
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	SO4	Sulfate	112	mg/L	12.5
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	CL	Chloride	191	mg/L	4.0
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	TSS	Tot. Suspended Solids	14	mg/L	2
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	HARD	Hardness as CaCO3	286	mg/l	
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	COD	COD	52	mg/L	
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1004	uS/cm	
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	TEMP_FLD	Temperature (Field) Celsius	22.94	Deg C	
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	PH_FLD	pH (Field)	7.70	S.U.	
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	DO_FLD	Dissolved Oxygen (field) mg/L	5.25	mg/l	
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	1045	uS/cm	
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	\$ICP	Aluminum	0.00	mg/L	0.348
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	\$ICP	Antimony	0.00	mg/L	0.006
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	\$ICP	Arsenic	0.165	mg/L	0.012
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	\$ICP	Barium	0.0690	mg/L	0.003
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	\$ICP	Calcium	77.3	mg/L	0.066
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	\$ICP	Chromium	0.00	mg/L	0.006
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	\$ICP	Cobalt	0.00327	mg/L	0.006
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	\$ICP	Copper	0.00638	mg/L	0.006
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	\$ICP	Iron	0.354	mg/L	0.018
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	\$ICP	Lead	0.0234	mg/L	0.006
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	\$ICP	Magnesium	28.5	mg/L	0.021
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	\$ICP	Manganese	0.134	mg/L	0.009
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	\$ICP	Nickel	0.00461	mg/L	0.003
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	\$ICP	Selenium	0.122	mg/L	0.009
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	\$ICP	Silver	0.00	mg/L	0.003
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	\$ICP	Strontium	0.382	mg/L	0.009
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	\$ICP	Thallium	0.0230	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	\$ICP	Tin	0.00	mg/L	0.006
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	\$ICP	Zinc	0.0233	mg/L	0.006
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	PB_FU	Lead by Furnace	0.206	ug/L	0.5
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	AS_FU	Arsenic by Furnace	0.628	ug/L	1.0
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	CU_FU	Copper by Furnace	5.2	ug/L	1
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	NH3	Ammonia as N	0	mg/L	0.5
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	TKN	Total Kjeldahl Nitrogen	0.7546	mg/L	0.5
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	NO2	Nitrite as N	0.0064	mg/l	0.005
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	NO3	Nitrate as N (calculated)	AW	mg/l	
AC05397	LM73	Little Miami Watershed	73	8/14/2012	09:10	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	MF_CF	Fecal Coliform, Membrane Filter	1600	CFU/100mL	
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	E-COLI	E.coli (Colilert)	2420	MPN	
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	TDS	Total Dissolved Solids	760	mg/L	
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	SO4	Sulfate	83.0	mg/L	25.0
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	CL	Chloride	245	mg/L	4.0
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	TSS	Tot. Suspended Solids	10	mg/L	2
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	HARD	Hardness as CaCO3	400	mg/l	
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	COD	COD	5	mg/L	
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1072	uS/cm	
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	TEMP_FLD	Temperature (Field) Celsius	21.14	Deg C	
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	PH_FLD	pH (Field)	7.82	S.U.	
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	DO_FLD	Dissolved Oxygen (field) mg/L	5.30	mg/l	
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	1158	uS/cm	
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	\$ICP	Aluminum	0.00	mg/L	0.348
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	\$ICP	Antimony	0.00	mg/L	0.006
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	\$ICP	Arsenic	0.0887	mg/L	0.012
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	\$ICP	Barium	0.0546	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	\$ICP	Calcium	119	mg/L	0.066
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	\$ICP	Chromium	0.00	mg/L	0.006
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	\$ICP	Copper	0.00450	mg/L	0.006
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	\$ICP	Iron	0.259	mg/L	0.018
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	\$ICP	Lead	0.0153	mg/L	0.006
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	\$ICP	Magnesium	28.2	mg/L	0.021
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	\$ICP	Manganese	0.0950	mg/L	0.009
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	\$ICP	Nickel	0.00242	mg/L	0.003
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	\$ICP	Selenium	0.149	mg/L	0.009
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	\$ICP	Silver	0.00	mg/L	0.003
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	\$ICP	Strontium	0.403	mg/L	0.009
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	\$ICP	Thallium	0.00	mg/L	0.012
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	\$ICP	Tin	0.00	mg/L	0.006
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	\$ICP	Zinc	0.0213	mg/L	0.006
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	AS_FU	Arsenic by Furnace	1.314	ug/L	1.0
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	CU_FU	Copper by Furnace	5.8	ug/L	1
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	NH3	Ammonia as N	0	mg/L	0.5
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	TKN	Total Kjeldahl Nitrogen	0.4975	mg/L	0.5
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	NO2	Nitrite as N	0.0133	mg/l	0.005
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	NO3	Nitrate as N (calculated)	AW	mg/l	
AC05398	LM74	Little Miami Watershed	74	8/14/2012	09:20	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	MF_CF	Fecal Coliform, Membrane Filter	560	CFU/100mL	
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	E-COLI	E.coli (Colilert)	411	MPN	
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	TDS	Total Dissolved Solids	730	mg/L	
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	BOD	Biochemical Oxygen Demand	2	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	SO4	Sulfate	114	mg/L	25.0
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	CL	Chloride	290	mg/L	4.0
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	TSS	Tot. Suspended Solids	11	mg/L	2
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	HARD	Hardness as CaCO3	420	mg/l	
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	COD	COD	28	mg/L	
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1193	uS/cm	
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	TEMP_FLD	Temperature (Field) Celsius	20.55	Deg C	
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	PH_FLD	pH (Field)	7.75	S.U.	
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	DO_FLD	Dissolved Oxygen (field) mg/L	6.26	mg/l	
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	1304	uS/cm	
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	\$ICP	Aluminum	0.00	mg/L	0.348
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	\$ICP	Antimony	0.00	mg/L	0.006
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	\$ICP	Arsenic	0.0324	mg/L	0.012
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	\$ICP	Barium	0.0572	mg/L	0.003
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	\$ICP	Calcium	125	mg/L	0.066
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	\$ICP	Chromium	0.00	mg/L	0.006
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	\$ICP	Copper	0.00357	mg/L	0.006
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	\$ICP	Iron	0.0901	mg/L	0.018
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	\$ICP	Lead	0.0289	mg/L	0.006
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	\$ICP	Magnesium	30.1	mg/L	0.021
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	\$ICP	Manganese	0.0599	mg/L	0.009
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	\$ICP	Nickel	0.00336	mg/L	0.003
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	\$ICP	Selenium	0.121	mg/L	0.009
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	\$ICP	Silver	0.00	mg/L	0.003
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	\$ICP	Strontium	0.447	mg/L	0.009
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	\$ICP	Thallium	0.00	mg/L	0.012
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	\$ICP	Tin	0.00	mg/L	0.006
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	\$ICP	Zinc	0.0198	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	AS_FU	Arsenic by Furnace	0.084	ug/L	1.0
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	CU_FU	Copper by Furnace	2.8	ug/L	1
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	NH3	Ammonia as N	0	mg/L	0.5
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	NO2	Nitrite as N	0.0073	mg/l	0.005
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	NO3	Nitrate as N (calculated)	AW	mg/l	
AC05399	LM84	Little Miami Watershed	84	8/14/2012	09:45	CHLOROPHYLL	Chlorophyll	6.94	mg/m3	1.00
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	MF_CF	Fecal Coliform, Membrane Filter	164	CFU/100mL	
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	E-COLI	E.coli (Colilert)	144	MPN	
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	TDS	Total Dissolved Solids	690	mg/L	
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	SO4	Sulfate	116	mg/L	25.0
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	CL	Chloride	238	mg/L	4.0
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	TSS	Tot. Suspended Solids	16	mg/L	2
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	HARD	Hardness as CaCO3	240	mg/l	
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	COD	COD	47	mg/L	
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1072	uS/cm	
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	TEMP_FLD	Temperature (Field) Celsius	21.69	Deg C	
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	PH_FLD	pH (Field)	8.07	S.U.	
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	DO_FLD	Dissolved Oxygen (field) mg/L	13.35	mg/l	
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	1145	uS/cm	
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	\$ICP	Aluminum	0.00	mg/L	0.348
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	\$ICP	Antimony	0.00	mg/L	0.006
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	\$ICP	Arsenic	0.0809	mg/L	0.012
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	\$ICP	Barium	0.0660	mg/L	0.003
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	\$ICP	Calcium	129	mg/L	0.066



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	\$ICP	Chromium	0.00	mg/L	0.006
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	\$ICP	Copper	0.00493	mg/L	0.006
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	\$ICP	Iron	0.0317	mg/L	0.018
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	\$ICP	Lead	0.0333	mg/L	0.006
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	\$ICP	Magnesium	29.5	mg/L	0.021
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	\$ICP	Manganese	0.00530	mg/L	0.009
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	\$ICP	Nickel	0.00387	mg/L	0.003
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	\$ICP	Selenium	0.128	mg/L	0.009
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	\$ICP	Silver	0.00	mg/L	0.003
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	\$ICP	Strontium	0.375	mg/L	0.009
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	\$ICP	Thallium	0.00	mg/L	0.012
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	\$ICP	Tin	0.00	mg/L	0.006
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	\$ICP	Zinc	0.0213	mg/L	0.006
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	AS_FU	Arsenic by Furnace	0	ug/L	1.0
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	CU_FU	Copper by Furnace	2.9	ug/L	1
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	NH3	Ammonia as N	0	mg/L	0.5
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	NO3NO2	Nitrate + Nitrite	1.08	mg/L	0.5
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	NO2	Nitrite as N	0.0182	mg/l	0.005
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	NO3	Nitrate as N (calculated)	1.0618	mg/l	
AC05400	LM75	Little Miami Watershed	75	8/14/2012	10:10	CHLOROPHYLL	Chlorophyll	8.01	mg/m3	1.00
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	1400	CFU/100mL	
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	E-COLI	E.coli (Colilert)	435	MPN	
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	TDS	Total Dissolved Solids	730	mg/L	
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	SO4	Sulfate	178	mg/L	50.0
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	CL	Chloride	143	mg/L	4.0
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	TSS	Tot. Suspended Solids	12	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	SSC	Suspended Sediment Concentration	5.0	mg/L	5.0
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	HARD	Hardness as CaCO3	238	mg/l	
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	COD	COD	39	mg/L	
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1009	uS/cm	
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	21.51	Deg C	
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	PH_FLD	pH (Field)	7.92	S.U.	
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	7.78	mg/l	
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	1081	uS/cm	
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	\$ICP	Antimony	0.00	mg/L	0.006
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	\$ICP	Arsenic	0.00906	mg/L	0.012
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	\$ICP	Barium	0.0788	mg/L	0.003
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	\$ICP	Calcium	149	mg/L	0.066
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	\$ICP	Chromium	0.00	mg/L	0.006
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	\$ICP	Cobalt	0.00202	mg/L	0.006
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	\$ICP	Copper	0.00766	mg/L	0.006
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	\$ICP	Iron	0.131	mg/L	0.018
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	\$ICP	Lead	0.0302	mg/L	0.006
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	\$ICP	Magnesium	33.6	mg/L	0.021
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	\$ICP	Manganese	0.0234	mg/L	0.009
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	\$ICP	Nickel	0.00637	mg/L	0.003
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	\$ICP	Selenium	0.179	mg/L	0.009
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	\$ICP	Silver	0.00	mg/L	0.003
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	\$ICP	Strontium	0.413	mg/L	0.009
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	\$ICP	Thallium	0.0123	mg/L	0.012
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	\$ICP	Tin	0.00	mg/L	0.006
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	\$ICP	Zinc	0.0568	mg/L	0.006
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	PB_FU	Lead by Furnace	5.717	ug/L	0.5
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	AS_FU	Arsenic by Furnace	2.170	ug/L	1.0
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	CD_FU	Cadmium by Furnace	AA	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	CU_FU	Copper by Furnace	4.9	ug/L	1
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	NO3NO2	Nitrate + Nitrite	1.45	mg/L	0.5
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	TKN	Total Kjeldahl Nitrogen	0.5867	mg/L	0.5
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	NO2	Nitrite as N	0.0709	mg/l	0.005
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	NO3	Nitrate as N (calculated)	1.3791	mg/l	
AC05401	LM76	Little Miami Watershed	76	8/14/2012	10:30	CHLOROPHYLL	Chlorophyll	14.4	mg/m3	1.00
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	MF_CF	Fecal Coliform, Membrane Filter	967	CFU/100mL	
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	E-COLI	E.coli (Colilert)	186	MPN	
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	TDS	Total Dissolved Solids	650	mg/L	
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	SO4	Sulfate	137	mg/L	50.0
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	CL	Chloride	153	mg/L	4.0
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	TSS	Tot. Suspended Solids	4	mg/L	2
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	SSC	Suspended Sediment Concentration	10.0	mg/L	5.0
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	HARD	Hardness as CaCO3	324	mg/l	
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	COD	COD	43	mg/L	
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	892	uS/cm	
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	TEMP_FLD	Temperature (Field) Celsius	20.23	Deg C	
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	PH_FLD	pH (Field)	7.33	S.U.	
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	DO_FLD	Dissolved Oxygen (field) mg/L	4.68	mg/l	
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	981	uS/cm	
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	\$ICP	Aluminum	0.00	mg/L	0.348
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	\$ICP	Antimony	0.00	mg/L	0.006
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	\$ICP	Arsenic	0.0555	mg/L	0.012
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	\$ICP	Barium	0.0357	mg/L	0.003
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	\$ICP	Calcium	107	mg/L	0.066
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	\$ICP	Chromium	0.00	mg/L	0.006
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	\$ICP	Copper	0.00489	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	\$ICP	Iron	0.262	mg/L	0.018
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	\$ICP	Lead	0.0157	mg/L	0.006
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	\$ICP	Magnesium	23.0	mg/L	0.021
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	\$ICP	Manganese	0.108	mg/L	0.009
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	\$ICP	Nickel	0.00315	mg/L	0.003
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	\$ICP	Selenium	0.239	mg/L	0.009
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	\$ICP	Silver	0.00	mg/L	0.003
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	\$ICP	Strontium	0.693	mg/L	0.009
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	\$ICP	Thallium	0.00	mg/L	0.012
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	\$ICP	Tin	0.00	mg/L	0.006
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	\$ICP	Zinc	0.0172	mg/L	0.006
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	PB_FU	Lead by Furnace	5.417	ug/L	0.5
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	AS_FU	Arsenic by Furnace	2.313	ug/L	1.0
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	CU_FU	Copper by Furnace	2.9	ug/L	1
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	NH3	Ammonia as N	0	mg/L	0.5
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	NO3NO2	Nitrate + Nitrite	0.736	mg/L	0.5
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	NO2	Nitrite as N	0.0054	mg/l	0.005
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	NO3	Nitrate as N (calculated)	0.7306	mg/l	
AC05465	LM85	Little Miami Watershed	85	8/15/2012	09:20	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	MF_CF	Fecal Coliform, Membrane Filter	230	CFU/100mL	
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	E-COLI	E.coli (Colilert)	276	MPN	
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	TDS	Total Dissolved Solids	510	mg/L	
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	SO4	Sulfate	80.0	mg/L	25.0
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	CL	Chloride	76.2	mg/L	1.00
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	TSS	Tot. Suspended Solids	4	mg/L	2
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	HARD	Hardness as CaCO3	300	mg/l	
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	COD	COD	27	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	668	uS/cm	
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	TEMP_FLD	Temperature (Field) Celsius	19.27	Deg C	
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	PH_FLD	pH (Field)	7.87	S.U.	
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	DO_FLD	Dissolved Oxygen (field) mg/L	8.86	mg/l	
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	750	uS/cm	
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	\$ICP	Antimony	0.00	mg/L	0.006
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	\$ICP	Arsenic	0.0452	mg/L	0.012
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	\$ICP	Barium	0.0342	mg/L	0.003
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	\$ICP	Calcium	103	mg/L	0.066
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	\$ICP	Chromium	0.00	mg/L	0.006
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	\$ICP	Copper	0.00673	mg/L	0.006
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	\$ICP	Iron	0.0959	mg/L	0.018
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	\$ICP	Lead	0.0177	mg/L	0.006
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	\$ICP	Magnesium	18.2	mg/L	0.021
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	\$ICP	Manganese	0.0122	mg/L	0.009
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	\$ICP	Nickel	0.00150	mg/L	0.003
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	\$ICP	Selenium	0.130	mg/L	0.009
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	\$ICP	Silver	0.00	mg/L	0.003
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	\$ICP	Strontium	0.420	mg/L	0.009
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	\$ICP	Thallium	0.00	mg/L	0.012
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	\$ICP	Tin	0.00	mg/L	0.006
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	\$ICP	Zinc	0.0207	mg/L	0.006
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	PB_FU	Lead by Furnace	21.73	ug/L	0.5
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	AS_FU	Arsenic by Furnace	1.963	ug/L	1.0
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	CU_FU	Copper by Furnace	4.8	ug/L	1
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	NH3	Ammonia as N	0	mg/L	0.5
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	NO2	Nitrite as N	0.0026	mg/l	0.005
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	NO3	Nitrate as N (calculated)	AW	mg/l	
AC05466	LM86	Little Miami Watershed	86	8/15/2012	09:40	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	MF_CF	Fecal Coliform, Membrane Filter	250	CFU/100mL	
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	E-COLI	E.coli (Colilert)	228	MPN	
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	TDS	Total Dissolved Solids	500	mg/L	
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	SO4	Sulfate	83.0	mg/L	25.0
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	CL	Chloride	78.5	mg/L	1.00
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	TSS	Tot. Suspended Solids	4	mg/L	2
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	HARD	Hardness as CaCO3	308	mg/l	
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	COD	COD	46	mg/L	
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	668	uS/cm	
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	TEMP_FLD	Temperature (Field) Celsius	19.62	Deg C	
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	PH_FLD	pH (Field)	8.10	S.U.	
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	DO_FLD	Dissolved Oxygen (field) mg/L	8.87	mg/l	
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	744	uS/cm	
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	\$ICP	Antimony	0.0124	mg/L	0.006
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	\$ICP	Arsenic	0.124	mg/L	0.012
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	\$ICP	Barium	0.0365	mg/L	0.003
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	\$ICP	Calcium	104	mg/L	0.066
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	\$ICP	Chromium	0.00	mg/L	0.006
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	\$ICP	Copper	0.00648	mg/L	0.006
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	\$ICP	Iron	0.0787	mg/L	0.018
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	\$ICP	Lead	0.0417	mg/L	0.006
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	\$ICP	Magnesium	18.7	mg/L	0.021

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	\$ICP	Manganese	0.0295	mg/L	0.009
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	\$ICP	Nickel	0.00170	mg/L	0.003
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	\$ICP	Selenium	0.211	mg/L	0.009
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	\$ICP	Silver	0.00	mg/L	0.003
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	\$ICP	Strontium	0.425	mg/L	0.009
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	\$ICP	Thallium	0.00	mg/L	0.012
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	\$ICP	Tin	0.00	mg/L	0.006
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	\$ICP	Zinc	0.0153	mg/L	0.006
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	PB_FU	Lead by Furnace	5.376	ug/L	0.5
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	AS_FU	Arsenic by Furnace	1.979	ug/L	1.0
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	CU_FU	Copper by Furnace	3.9	ug/L	1
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	NH3	Ammonia as N	0	mg/L	0.5
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	NO2	Nitrite as N	0.0044	mg/l	0.005
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	NO3	Nitrate as N (calculated)	AW	mg/l	
AC05467	LM87	Little Miami Watershed	87	8/15/2012	09:50	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	MF_CF	Fecal Coliform, Membrane Filter	186	CFU/100mL	
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	E-COLI	E.coli (Colilert)	179	MPN	
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	TDS	Total Dissolved Solids	500	mg/L	
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	SO4	Sulfate	79.5	mg/L	25.0
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	CL	Chloride	74.3	mg/L	1.00
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	TSS	Tot. Suspended Solids	20	mg/L	2
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	SSC	Suspended Sediment Concentration	21.0	mg/L	5.0
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	HARD	Hardness as CaCO3	284	mg/l	
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	COD	COD	42	mg/L	
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	654	uS/cm	
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	TEMP_FLD	Temperature (Field) Celsius	20.01	Deg C	
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	PH_FLD	pH (Field)	7.92	S.U.	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	DO_FLD	Dissolved Oxygen (field) mg/L	7.41	mg/l	
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	723	uS/cm	
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	\$ICP	Aluminum	0.208	mg/L	0.348
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	\$ICP	Antimony	0.0160	mg/L	0.006
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	\$ICP	Arsenic	0.0305	mg/L	0.012
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	\$ICP	Barium	0.0364	mg/L	0.003
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	\$ICP	Calcium	97.4	mg/L	0.066
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	\$ICP	Chromium	0.00	mg/L	0.006
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	\$ICP	Copper	0.00681	mg/L	0.006
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	\$ICP	Iron	0.350	mg/L	0.018
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	\$ICP	Lead	0.0250	mg/L	0.006
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	\$ICP	Magnesium	17.6	mg/L	0.021
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	\$ICP	Manganese	0.0360	mg/L	0.009
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	\$ICP	Nickel	0.00104	mg/L	0.003
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	\$ICP	Selenium	0.119	mg/L	0.009
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	\$ICP	Silver	0.00	mg/L	0.003
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	\$ICP	Strontium	0.395	mg/L	0.009
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	\$ICP	Thallium	0.00	mg/L	0.012
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	\$ICP	Tin	0.00	mg/L	0.006
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	\$ICP	Zinc	0.0171	mg/L	0.006
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	PB_FU	Lead by Furnace	4.612	ug/L	0.5
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	AS_FU	Arsenic by Furnace	2.006	ug/L	1.0
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	CU_FU	Copper by Furnace	4.4	ug/L	1
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	NH3	Ammonia as N	0	mg/L	0.5
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	NO2	Nitrite as N	0.0033	mg/l	0.005



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	NO3	Nitrate as N (calculated)	AW	mg/l	
AC05468	LM90	Little Miami Watershed	90	8/15/2012	10:10	CHLOROPHYLL	Chlorophyll	3.74	mg/m3	1.00
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	733	CFU/100mL	
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	E-COLI	E.coli (Colilert)	1553	MPN	
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	TDS	Total Dissolved Solids	550	mg/L	
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	SO4	Sulfate	58.5	mg/L	25.0
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	CL	Chloride	85.0	mg/L	1.00
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	TSS	Tot. Suspended Solids	8	mg/L	2
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	HARD	Hardness as CaCO3	280	mg/l	
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	COD	COD	37	mg/L	
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	664	uS/cm	
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	20.20	Deg C	
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	PH_FLD	pH (Field)	7.52	S.U.	
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	3.34	mg/l	
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	731	uS/cm	
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	\$ICP	Antimony	0.00	mg/L	0.006
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	\$ICP	Arsenic	0.125	mg/L	0.012
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	\$ICP	Barium	0.0461	mg/L	0.003
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	\$ICP	Calcium	95.2	mg/L	0.066
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	\$ICP	Chromium	0.00	mg/L	0.006
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	\$ICP	Copper	0.00646	mg/L	0.006
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	\$ICP	Iron	0.196	mg/L	0.018
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	\$ICP	Lead	0.0237	mg/L	0.006
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	\$ICP	Magnesium	15.6	mg/L	0.021
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	\$ICP	Manganese	0.518	mg/L	0.009
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	\$ICP	Nickel	0.00185	mg/L	0.003
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	\$ICP	Selenium	0.227	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	\$ICP	Silver	0.00	mg/L	0.003
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	\$ICP	Strontium	0.339	mg/L	0.009
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	\$ICP	Thallium	0.0156	mg/L	0.012
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	\$ICP	Tin	0.00	mg/L	0.006
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	\$ICP	Zinc	0.0177	mg/L	0.006
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	PB_FU	Lead by Furnace	5.157	ug/L	0.5
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	AS_FU	Arsenic by Furnace	2.172	ug/L	1.0
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	CU_FU	Copper by Furnace	4.6	ug/L	1
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	TKN	Total Kjeldahl Nitrogen	0.4966	mg/L	0.5
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	NO2	Nitrite as N	0.0243	mg/l	0.005
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	NO3	Nitrate as N (calculated)	AW	mg/l	
AC05469	LM88	Little Miami Watershed	88	8/15/2012	10:30	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	MF_CF	Fecal Coliform, Membrane Filter	150	CFU/100mL	
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	E-COLI	E.coli (Colilert)	248	MPN	
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	TDS	Total Dissolved Solids	430	mg/L	
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	SO4	Sulfate	66.5	mg/L	25.0
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	CL	Chloride	73.0	mg/L	1.00
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	TSS	Tot. Suspended Solids	14	mg/L	2
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	SSC	Suspended Sediment Concentration	6.0	mg/L	5.0
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	HARD	Hardness as CaCO3	244	mg/l	
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	COD	COD	53	mg/L	
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	611	uS/cm	
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	TEMP_FLD	Temperature (Field) Celsius	22.90	Deg C	
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	PH_FLD	pH (Field)	8.19	S.U.	
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	DO_FLD	Dissolved Oxygen (field) mg/L	8.21	mg/l	
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	637	uS/cm	
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	\$ICP	Aluminum	0.00	mg/L	0.348

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	\$ICP	Antimony	0.00	mg/L	0.006
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	\$ICP	Arsenic	0.0341	mg/L	0.012
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	\$ICP	Barium	0.0376	mg/L	0.003
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	\$ICP	Calcium	71.1	mg/L	0.066
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	\$ICP	Chromium	0.00	mg/L	0.006
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	\$ICP	Copper	0.00449	mg/L	0.006
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	\$ICP	Iron	0.169	mg/L	0.018
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	\$ICP	Lead	0.0198	mg/L	0.006
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	\$ICP	Magnesium	15.1	mg/L	0.021
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	\$ICP	Manganese	0.0637	mg/L	0.009
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	\$ICP	Nickel	0.00133	mg/L	0.003
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	\$ICP	Selenium	0.113	mg/L	0.009
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	\$ICP	Silver	0.00	mg/L	0.003
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	\$ICP	Strontium	0.265	mg/L	0.009
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	\$ICP	Thallium	0.00	mg/L	0.012
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	\$ICP	Tin	0.00	mg/L	0.006
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	\$ICP	Zinc	0.0195	mg/L	0.006
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	PB_FU	Lead by Furnace	1.304	ug/L	0.5
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	AS_FU	Arsenic by Furnace	1.152	ug/L	1.0
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	CU_FU	Copper by Furnace	6.2	ug/L	1
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	NH3	Ammonia as N	0	mg/L	0.5
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	NO3NO2	Nitrate + Nitrite	5.47	mg/L	0.5
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	TKN	Total Kjeldahl Nitrogen	0.8140	mg/L	0.5
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	NO2	Nitrite as N	0.0132	mg/l	0.005
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	NO3	Nitrate as N (calculated)	5.4568	mg/l	
AC05470	LM89	Little Miami Watershed	89	8/15/2012	10:45	CHLOROPHYLL	Chlorophyll	33.6	mg/m3	1.00
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	280	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	E-COLI	E.coli (Colilert)	260	MPN	
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	TDS	Total Dissolved Solids	620	mg/L	
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	SO4	Sulfate	107	mg/L	25.0
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	CL	Chloride	119	mg/L	2.0
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	TSS	Tot. Suspended Solids	10	mg/L	2
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	SSC	Suspended Sediment Concentration	8.0	mg/L	5.0
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	HARD	Hardness as CaCO3	380	mg/l	
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	COD	COD	36	mg/L	
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	834	uS/cm	
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	22.44	Deg C	
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	PH_FLD	pH (Field)	7.92	S.U.	
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	9.92	mg/l	
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	877	uS/cm	
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	\$ICP	Antimony	0.00	mg/L	0.006
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	\$ICP	Arsenic	0.0974	mg/L	0.012
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	\$ICP	Barium	0.0611	mg/L	0.003
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	\$ICP	Calcium	98.5	mg/L	0.066
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	\$ICP	Chromium	0.00	mg/L	0.006
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	\$ICP	Copper	0.00545	mg/L	0.006
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	\$ICP	Iron	0.280	mg/L	0.018
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	\$ICP	Lead	0.0262	mg/L	0.006
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	\$ICP	Magnesium	27.9	mg/L	0.021
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	\$ICP	Manganese	0.0752	mg/L	0.009
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	\$ICP	Nickel	0.00236	mg/L	0.003
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	\$ICP	Selenium	0.109	mg/L	0.009
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	\$ICP	Silver	0.00	mg/L	0.003
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	\$ICP	Strontium	0.340	mg/L	0.009
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	\$ICP	Thallium	0.0531	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	\$ICP	Tin	0.00	mg/L	0.006
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	\$ICP	Zinc	0.0195	mg/L	0.006
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	PB_FU	Lead by Furnace	0.532	ug/L	0.5
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	AS_FU	Arsenic by Furnace	1.206	ug/L	1.0
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	CU_FU	Copper by Furnace	4.1	ug/L	1
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	TKN	Total Kjeldahl Nitrogen	0.7049	mg/L	0.5
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	NO2	Nitrite as N	0.0237	mg/l	0.005
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC05471	LM77	Little Miami Watershed	77	8/15/2012	11:00	CHLOROPHYLL	Chlorophyll	27.8	mg/m3	1.00
AC05535	LM10	Little Miami Watershed	10 (3261-10)	8/16/2012	08:45	MF_CF	Fecal Coliform, Membrane Filter	71	CFU/100mL	
AC05535	LM10	Little Miami Watershed	10 (3261-10)	8/16/2012	08:45	E-COLI	E.coli (Colilert)	73	MPN	
AC05535	LM10	Little Miami Watershed	10 (3261-10)	8/16/2012	08:45	TDS	Total Dissolved Solids	400	mg/L	
AC05535	LM10	Little Miami Watershed	10 (3261-10)	8/16/2012	08:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05535	LM10	Little Miami Watershed	10 (3261-10)	8/16/2012	08:45	SO4	Sulfate	60.0	mg/L	25.0
AC05535	LM10	Little Miami Watershed	10 (3261-10)	8/16/2012	08:45	CL	Chloride	138	mg/L	4.0
AC05535	LM10	Little Miami Watershed	10 (3261-10)	8/16/2012	08:45	TSS	Tot. Suspended Solids	30	mg/L	2
AC05535	LM10	Little Miami Watershed	10 (3261-10)	8/16/2012	08:45	SSC	Suspended Sediment Concentration	28.5	mg/L	5.0
AC05535	LM10	Little Miami Watershed	10 (3261-10)	8/16/2012	08:45	HARD	Hardness as CaCO3	350	mg/l	
AC05535	LM10	Little Miami Watershed	10 (3261-10)	8/16/2012	08:45	COD	COD	38	mg/L	
AC05535	LM10	Little Miami Watershed	10 (3261-10)	8/16/2012	08:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	931	uS/cm	
AC05535	LM10	Little Miami Watershed	10 (3261-10)	8/16/2012	08:45	TEMP_FLD	Temperature (Field) Celsius	24.05	Deg C	
AC05535	LM10	Little Miami Watershed	10 (3261-10)	8/16/2012	08:45	PH_FLD	pH (Field)	7.89	S.U.	
AC05535	LM10	Little Miami Watershed	10 (3261-10)	8/16/2012	08:45	DO_FLD	Dissolved Oxygen (field) mg/L	5.30	mg/l	
AC05535	LM10	Little Miami Watershed	10 (3261-10)	8/16/2012	08:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	948	uS/cm	
AC05535	LM10	Little Miami Watershed	10 (3261-10)	8/16/2012	08:45	NH3	Ammonia as N	0	mg/L	0.5
AC05535	LM10	Little Miami Watershed	10 (3261-10)	8/16/2012	08:45	NO3NO2	Nitrate + Nitrite	1.99	mg/L	0.5
AC05535	LM10	Little Miami Watershed	10 (3261-10)	8/16/2012	08:45	TKN	Total Kjeldahl Nitrogen	0.8540	mg/L	0.5
AC05535	LM10	Little Miami Watershed	10 (3261-10)	8/16/2012	08:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05535	LM10	Little Miami Watershed	10 (3261-10)	8/16/2012	08:45	NO2	Nitrite as N	0.0358	mg/l	0.005
AC05535	LM10	Little Miami Watershed	10 (3261-10)	8/16/2012	08:45	NO3	Nitrate as N (calculated)	1.9542	mg/l	
AC05535	LM10	Little Miami Watershed	10 (3261-10)	8/16/2012	08:45	CHLOROPHYLL	Chlorophyll	25.6	mg/m3	1.00
AC05536	LM13	Little Miami Watershed	13 (3261-03)	8/16/2012	09:35	MF_CF	Fecal Coliform, Membrane Filter	143	CFU/100mL	
AC05536	LM13	Little Miami Watershed	13 (3261-03)	8/16/2012	09:35	E-COLI	E.coli (Colilert)	201	MPN	
AC05536	LM13	Little Miami Watershed	13 (3261-03)	8/16/2012	09:35	TDS	Total Dissolved Solids	410	mg/L	
AC05536	LM13	Little Miami Watershed	13 (3261-03)	8/16/2012	09:35	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05536	LM13	Little Miami Watershed	13 (3261-03)	8/16/2012	09:35	SO4	Sulfate	53.8	mg/L	12.5
AC05536	LM13	Little Miami Watershed	13 (3261-03)	8/16/2012	09:35	CL	Chloride	97.2	mg/L	1.00
AC05536	LM13	Little Miami Watershed	13 (3261-03)	8/16/2012	09:35	TSS	Tot. Suspended Solids	28	mg/L	2
AC05536	LM13	Little Miami Watershed	13 (3261-03)	8/16/2012	09:35	SSC	Suspended Sediment Concentration	24.2	mg/L	5.0
AC05536	LM13	Little Miami Watershed	13 (3261-03)	8/16/2012	09:35	HARD	Hardness as CaCO3	340	mg/l	
AC05536	LM13	Little Miami Watershed	13 (3261-03)	8/16/2012	09:35	COD	COD	39	mg/L	
AC05536	LM13	Little Miami Watershed	13 (3261-03)	8/16/2012	09:35	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	796	uS/cm	
AC05536	LM13	Little Miami Watershed	13 (3261-03)	8/16/2012	09:35	TEMP_FLD	Temperature (Field) Celsius	24.25	Deg C	
AC05536	LM13	Little Miami Watershed	13 (3261-03)	8/16/2012	09:35	PH_FLD	pH (Field)	7.84	S.U.	
AC05536	LM13	Little Miami Watershed	13 (3261-03)	8/16/2012	09:35	DO_FLD	Dissolved Oxygen (field) mg/L	6.80	mg/l	
AC05536	LM13	Little Miami Watershed	13 (3261-03)	8/16/2012	09:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	808	uS/cm	
AC05536	LM13	Little Miami Watershed	13 (3261-03)	8/16/2012	09:35	NH3	Ammonia as N	0	mg/L	0.5
AC05536	LM13	Little Miami Watershed	13 (3261-03)	8/16/2012	09:35	NO3NO2	Nitrate + Nitrite	1.97	mg/L	0.5
AC05536	LM13	Little Miami Watershed	13 (3261-03)	8/16/2012	09:35	TKN	Total Kjeldahl Nitrogen	0.8291	mg/L	0.5
AC05536	LM13	Little Miami Watershed	13 (3261-03)	8/16/2012	09:35	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05536	LM13	Little Miami Watershed	13 (3261-03)	8/16/2012	09:35	NO2	Nitrite as N	0.0330	mg/l	0.005
AC05536	LM13	Little Miami Watershed	13 (3261-03)	8/16/2012	09:35	NO3	Nitrate as N (calculated)	1.9370	mg/l	
AC05536	LM13	Little Miami Watershed	13 (3261-03)	8/16/2012	09:35	CHLOROPHYLL	Chlorophyll	25.6	mg/m3	1.00
AC05537	LM14	Little Miami Watershed	15	8/16/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	129	CFU/100mL	
AC05537	LM14	Little Miami Watershed	15	8/16/2012	10:00	E-COLI	E.coli (Colilert)	102	MPN	
AC05537	LM14	Little Miami Watershed	15	8/16/2012	10:00	TDS	Total Dissolved Solids	440	mg/L	
AC05537	LM14	Little Miami Watershed	15	8/16/2012	10:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05537	LM14	Little Miami Watershed	15	8/16/2012	10:00	SO4	Sulfate	56.2	mg/L	12.5
AC05537	LM14	Little Miami Watershed	15	8/16/2012	10:00	CL	Chloride	98.4	mg/L	1.00
AC05537	LM14	Little Miami Watershed	15	8/16/2012	10:00	TSS	Tot. Suspended Solids	28	mg/L	2
AC05537	LM14	Little Miami Watershed	15	8/16/2012	10:00	SSC	Suspended Sediment Concentration	21.4	mg/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05537	LM14	Little Miami Watershed	15	8/16/2012	10:00	HARD	Hardness as CaCO3	326	mg/l	
AC05537	LM14	Little Miami Watershed	15	8/16/2012	10:00	COD	COD	38	mg/L	
AC05537	LM14	Little Miami Watershed	15	8/16/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	820	uS/cm	
AC05537	LM14	Little Miami Watershed	15	8/16/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	24.25	Deg C	
AC05537	LM14	Little Miami Watershed	15	8/16/2012	10:00	PH_FLD	pH (Field)	7.75	S.U.	
AC05537	LM14	Little Miami Watershed	15	8/16/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	6.60	mg/l	
AC05537	LM14	Little Miami Watershed	15	8/16/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	831	uS/cm	
AC05537	LM14	Little Miami Watershed	15	8/16/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC05537	LM14	Little Miami Watershed	15	8/16/2012	10:00	NO3NO2	Nitrate + Nitrite	1.83	mg/L	0.5
AC05537	LM14	Little Miami Watershed	15	8/16/2012	10:00	TKN	Total Kjeldahl Nitrogen	0.7696	mg/L	0.5
AC05537	LM14	Little Miami Watershed	15	8/16/2012	10:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05537	LM14	Little Miami Watershed	15	8/16/2012	10:00	NO2	Nitrite as N	0.0313	mg/l	0.005
AC05537	LM14	Little Miami Watershed	15	8/16/2012	10:00	NO3	Nitrate as N (calculated)	1.7987	mg/l	
AC05537	LM14	Little Miami Watershed	15	8/16/2012	10:00	CHLOROPHYLL	Chlorophyll	28.3	mg/m3	1.00
AC05538	LM16	Little Miami Watershed	16 (3261-02)	8/16/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	93	CFU/100mL	
AC05538	LM16	Little Miami Watershed	16 (3261-02)	8/16/2012	10:30	E-COLI	E.coli (Colilert)	126	MPN	
AC05538	LM16	Little Miami Watershed	16 (3261-02)	8/16/2012	10:30	TDS	Total Dissolved Solids	400	mg/L	
AC05538	LM16	Little Miami Watershed	16 (3261-02)	8/16/2012	10:30	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC05538	LM16	Little Miami Watershed	16 (3261-02)	8/16/2012	10:30	SO4	Sulfate	50.5	mg/L	12.5
AC05538	LM16	Little Miami Watershed	16 (3261-02)	8/16/2012	10:30	CL	Chloride	95.1	mg/L	1.00
AC05538	LM16	Little Miami Watershed	16 (3261-02)	8/16/2012	10:30	TSS	Tot. Suspended Solids	40	mg/L	2
AC05538	LM16	Little Miami Watershed	16 (3261-02)	8/16/2012	10:30	SSC	Suspended Sediment Concentration	24.8	mg/L	5.0
AC05538	LM16	Little Miami Watershed	16 (3261-02)	8/16/2012	10:30	HARD	Hardness as CaCO3	332	mg/l	
AC05538	LM16	Little Miami Watershed	16 (3261-02)	8/16/2012	10:30	COD	COD	39	mg/L	
AC05538	LM16	Little Miami Watershed	16 (3261-02)	8/16/2012	10:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	791	uS/cm	
AC05538	LM16	Little Miami Watershed	16 (3261-02)	8/16/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	24.10	Deg C	
AC05538	LM16	Little Miami Watershed	16 (3261-02)	8/16/2012	10:30	PH_FLD	pH (Field)	7.68	S.U.	
AC05538	LM16	Little Miami Watershed	16 (3261-02)	8/16/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	6.15	mg/l	
AC05538	LM16	Little Miami Watershed	16 (3261-02)	8/16/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	804	uS/cm	
AC05538	LM16	Little Miami Watershed	16 (3261-02)	8/16/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC05538	LM16	Little Miami Watershed	16 (3261-02)	8/16/2012	10:30	NO3NO2	Nitrate + Nitrite	1.77	mg/L	0.5
AC05538	LM16	Little Miami Watershed	16 (3261-02)	8/16/2012	10:30	TKN	Total Kjeldahl Nitrogen	0.7949	mg/L	0.5
AC05538	LM16	Little Miami Watershed	16 (3261-02)	8/16/2012	10:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05538	LM16	Little Miami Watershed	16 (3261-02)	8/16/2012	10:30	NO2	Nitrite as N	0.0316	mg/l	0.005
AC05538	LM16	Little Miami Watershed	16 (3261-02)	8/16/2012	10:30	NO3	Nitrate as N (calculated)	1.7384	mg/l	
AC05538	LM16	Little Miami Watershed	16 (3261-02)	8/16/2012	10:30	CHLOROPHYLL	Chlorophyll	30.4	mg/m3	1.00
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	MF_CF	Fecal Coliform, Membrane Filter	79	CFU/100mL	
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	E-COLI	E.coli (Colilert)	63	MPN	
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	TDS	Total Dissolved Solids	420	mg/L	
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	SO4	Sulfate	65.8	mg/L	12.5
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	CL	Chloride	106	mg/L	1.00
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	TSS	Tot. Suspended Solids	2	mg/L	2
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	HARD	Hardness as CaCO3	328	mg/l	
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	COD	COD	32	mg/L	
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	806	uS/cm	
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	TEMP_FLD	Temperature (Field) Celsius	21.60	Deg C	
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	PH_FLD	pH (Field)	8.13	S.U.	
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	DO_FLD	Dissolved Oxygen (field) mg/L	11.83	mg/l	
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	862	uS/cm	
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	\$ICP	Aluminum	0.00	mg/L	0.348
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	\$ICP	Antimony	0.00	mg/L	0.006
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	\$ICP	Arsenic	0.107	mg/L	0.012
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	\$ICP	Barium	0.0634	mg/L	0.003
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	\$ICP	Calcium	91.4	mg/L	0.066
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	\$ICP	Chromium	0.00	mg/L	0.006
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	\$ICP	Copper	0.00386	mg/L	0.006
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	\$ICP	Iron	0.141	mg/L	0.018
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	\$ICP	Lead	0.0216	mg/L	0.006
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	\$ICP	Magnesium	17.5	mg/L	0.021
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	\$ICP	Manganese	0.0761	mg/L	0.009
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	\$ICP	Nickel	0.00255	mg/L	0.003



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	\$ICP	Selenium	0.186	mg/L	0.009
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	\$ICP	Silver	0.00	mg/L	0.003
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	\$ICP	Strontium	0.403	mg/L	0.009
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	\$ICP	Thallium	0.0354	mg/L	0.012
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	\$ICP	Tin	0.00	mg/L	0.006
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	\$ICP	Zinc	0.0161	mg/L	0.006
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	PB_FU	Lead by Furnace	0.104	ug/L	0.5
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	AS_FU	Arsenic by Furnace	0.873	ug/L	1.0
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	CU_FU	Copper by Furnace	2.5	ug/L	1
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	NH3	Ammonia as N	0	mg/L	0.5
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	NO2	Nitrite as N	0.0081	mg/l	0.005
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	NO3	Nitrate as N (calculated)	AW	mg/l	
AC05539	LM95	Little Miami Watershed	95	8/16/2012	10:45	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC05540	LM17	Little Miami Watershed	17 (3261-01)	8/16/2012	11:15	MF_CF	Fecal Coliform, Membrane Filter	114	CFU/100mL	
AC05540	LM17	Little Miami Watershed	17 (3261-01)	8/16/2012	11:15	E-COLI	E.coli (Colilert)	104	MPN	
AC05540	LM17	Little Miami Watershed	17 (3261-01)	8/16/2012	11:15	TDS	Total Dissolved Solids	410	mg/L	
AC05540	LM17	Little Miami Watershed	17 (3261-01)	8/16/2012	11:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05540	LM17	Little Miami Watershed	17 (3261-01)	8/16/2012	11:15	SO4	Sulfate	53.5	mg/L	12.5
AC05540	LM17	Little Miami Watershed	17 (3261-01)	8/16/2012	11:15	CL	Chloride	93.5	mg/L	1.00
AC05540	LM17	Little Miami Watershed	17 (3261-01)	8/16/2012	11:15	TSS	Tot. Suspended Solids	26	mg/L	2
AC05540	LM17	Little Miami Watershed	17 (3261-01)	8/16/2012	11:15	SSC	Suspended Sediment Concentration	20.1	mg/L	5.0
AC05540	LM17	Little Miami Watershed	17 (3261-01)	8/16/2012	11:15	HARD	Hardness as CaCO3	330	mg/l	
AC05540	LM17	Little Miami Watershed	17 (3261-01)	8/16/2012	11:15	COD	COD	42	mg/L	
AC05540	LM17	Little Miami Watershed	17 (3261-01)	8/16/2012	11:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	801	uS/cm	
AC05540	LM17	Little Miami Watershed	17 (3261-01)	8/16/2012	11:15	TEMP_FLD	Temperature (Field) Celsius	24.30	Deg C	
AC05540	LM17	Little Miami Watershed	17 (3261-01)	8/16/2012	11:15	PH_FLD	pH (Field)	7.22	S.U.	
AC05540	LM17	Little Miami Watershed	17 (3261-01)	8/16/2012	11:15	DO_FLD	Dissolved Oxygen (field) mg/L	4.90	mg/l	
AC05540	LM17	Little Miami Watershed	17 (3261-01)	8/16/2012	11:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	8.11	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05540	LM17	Little Miami Watershed	17 (3261-01)	8/16/2012	11:15	NH3	Ammonia as N	0	mg/L	0.5
AC05540	LM17	Little Miami Watershed	17 (3261-01)	8/16/2012	11:15	NO3NO2	Nitrate + Nitrite	1.97	mg/L	0.5
AC05540	LM17	Little Miami Watershed	17 (3261-01)	8/16/2012	11:15	TKN	Total Kjeldahl Nitrogen	0.9269	mg/L	0.5
AC05540	LM17	Little Miami Watershed	17 (3261-01)	8/16/2012	11:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05540	LM17	Little Miami Watershed	17 (3261-01)	8/16/2012	11:15	NO2	Nitrite as N	0.0336	mg/l	0.005
AC05540	LM17	Little Miami Watershed	17 (3261-01)	8/16/2012	11:15	NO3	Nitrate as N (calculated)	1.9364	mg/l	
AC05540	LM17	Little Miami Watershed	17 (3261-01)	8/16/2012	11:15	CHLOROPHYLL	Chlorophyll	48.1	mg/m3	1.00
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	MF_CF	Fecal Coliform, Membrane Filter	210	CFU/100mL	
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	E-COLI	E.coli (Colilert)	435	MPN	
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	TDS	Total Dissolved Solids	480	mg/L	
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	SO4	Sulfate	46.0	mg/L	12.5
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	CL	Chloride	61.1	mg/L	1.00
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	TSS	Tot. Suspended Solids	6	mg/L	2
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	HARD	Hardness as CaCO3	422	mg/l	
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	COD	COD	18	mg/L	
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	630	uS/cm	
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	TEMP_FLD	Temperature (Field) Celsius	15.44	Deg C	
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	PH_FLD	pH (Field)	6.90	S.U.	
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	DO_FLD	Dissolved Oxygen (field) mg/L	1.21	mg/l	
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	771	uS/cm	
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	\$ICP	Aluminum	0.118	mg/L	0.348
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	\$ICP	Antimony	0.003	mg/L	0.006
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	\$ICP	Arsenic	0.060	mg/L	0.012
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	\$ICP	Barium	0.0663	mg/L	0.003
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	\$ICP	Beryllium	0.000	mg/L	0.009
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	\$ICP	Cadmium	0.000	mg/L	0.012
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	\$ICP	Calcium	118	mg/L	0.066
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	\$ICP	Chromium	0.000	mg/L	0.006
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	\$ICP	Cobalt	0.000	mg/L	0.006
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	\$ICP	Copper	0.003	mg/L	0.006
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	\$ICP	Iron	0.239	mg/L	0.018

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	\$ICP	Lead	0.023	mg/L	0.006
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	\$ICP	Magnesium	21.300	mg/L	0.021
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	\$ICP	Manganese	0.102	mg/L	0.009
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	\$ICP	Nickel	0.002	mg/L	0.003
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	\$ICP	Selenium	0.186	mg/L	0.009
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	\$ICP	Silver	0.000	mg/L	0.003
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	\$ICP	Strontium	0.262	mg/L	0.009
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	\$ICP	Thallium	0.009	mg/L	0.012
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	\$ICP	Tin	0.000	mg/L	0.006
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	\$ICP	Vanadium	0.000	mg/L	0.018
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	\$ICP	Zinc	0.018	mg/L	0.006
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	\$ICP	Titanium	0.000	mg/L	
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	PB_FU	Lead by Furnace	0.134	ug/L	0.5
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	AS_FU	Arsenic by Furnace	0.997	ug/L	1.0
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	CU_FU	Copper by Furnace	AA	ug/L	1
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	NH3	Ammonia as N	0	mg/L	0.5
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	NO2	Nitrite as N	0.0130	mg/l	0.005
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	NO3	Nitrate as N (calculated)	AW	mg/l	
AC05631	RF09	Little Miami Watershed	09	8/17/2012	08:20	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	MF_CF	Fecal Coliform, Membrane Filter	86	CFU/100mL	
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	E-COLI	E.coli (Colilert)	86	MPN	
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	TDS	Total Dissolved Solids	400	mg/L	
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	SO4	Sulfate	38.5	mg/L	12.5
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	CL	Chloride	61.4	mg/L	1.00
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	TSS	Tot. Suspended Solids	4	mg/L	2
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	HARD	Hardness as CaCO3	328	mg/l	
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	COD	COD	7	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	510	uS/cm	
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	TEMP_FLD	Temperature (Field) Celsius	21.70	Deg C	
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	PH_FLD	pH (Field)	7.16	S.U.	
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	DO_FLD	Dissolved Oxygen (field) mg/L	3.17	mg/l	
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	544	uS/cm	
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	\$ICP	Aluminum	0.00	mg/L	0.348
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	\$ICP	Antimony	0.022	mg/L	0.006
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	\$ICP	Arsenic	0.099	mg/L	0.012
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	\$ICP	Barium	0.0573	mg/L	0.003
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	\$ICP	Beryllium	0.000	mg/L	0.009
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	\$ICP	Cadmium	0.000	mg/L	0.012
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	\$ICP	Calcium	71.5	mg/L	0.066
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	\$ICP	Chromium	0.000	mg/L	0.006
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	\$ICP	Cobalt	0.000	mg/L	0.006
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	\$ICP	Copper	0.004	mg/L	0.006
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	\$ICP	Iron	0.180	mg/L	0.018
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	\$ICP	Lead	0.030	mg/L	0.006
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	\$ICP	Magnesium	19.000	mg/L	0.021
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	\$ICP	Manganese	0.132	mg/L	0.009
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	\$ICP	Nickel	0.004	mg/L	0.003
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	\$ICP	Selenium	0.152	mg/L	0.009
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	\$ICP	Silver	0.000	mg/L	0.003
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	\$ICP	Strontium	0.295	mg/L	0.009
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	\$ICP	Thallium	0.000	mg/L	0.012
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	\$ICP	Tin	0.000	mg/L	0.006
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	\$ICP	Vanadium	0.000	mg/L	0.018
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	\$ICP	Zinc	0.015	mg/L	0.006
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	\$ICP	Titanium	0.000	mg/L	
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	PB_FU	Lead by Furnace	1.070	ug/L	0.5
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	AS_FU	Arsenic by Furnace	3.854	ug/L	1.0
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	CU_FU	Copper by Furnace	1.7	ug/L	1
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	NH3	Ammonia as N	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	NO2	Nitrite as N	0.0037	mg/l	0.005
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	NO3	Nitrate as N (calculated)	AW	mg/l	
AC05632	RF08	Little Miami Watershed	08	8/17/2012	08:45	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	MF_CF	Fecal Coliform, Membrane Filter	157	CFU/100mL	
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	E-COLI	E.coli (Colilert)	210	MPN	
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	TDS	Total Dissolved Solids	350	mg/L	
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	SO4	Sulfate	36.7	mg/L	5.0
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	CL	Chloride	20.0	mg/L	1.00
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	TSS	Tot. Suspended Solids	4	mg/L	2
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	SSC	Suspended Sediment Concentration	8.0	mg/L	5.0
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	HARD	Hardness as CaCO3	386	mg/l	
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	COD	COD	5	mg/L	
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	568	uS/cm	
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	TEMP_FLD	Temperature (Field) Celsius	18.97	Deg C	
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	PH_FLD	pH (Field)	7.04	S.U.	
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	DO_FLD	Dissolved Oxygen (field) mg/L	3.39	mg/l	
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	642	uS/cm	
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	\$ICP	Aluminum	0.00	mg/L	0.348
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	\$ICP	Antimony	0.010	mg/L	0.006
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	\$ICP	Arsenic	0.155	mg/L	0.012
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	\$ICP	Barium	0.0949	mg/L	0.003
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	\$ICP	Beryllium	0.000	mg/L	0.009
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	\$ICP	Cadmium	0.000	mg/L	0.012
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	\$ICP	Calcium	102	mg/L	0.066
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	\$ICP	Chromium	0.000	mg/L	0.006
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	\$ICP	Cobalt	0.000	mg/L	0.006
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	\$ICP	Copper	0.003	mg/L	0.006
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	\$ICP	Iron	0.120	mg/L	0.018
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	\$ICP	Lead	0.005	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	\$ICP	Magnesium	28.000	mg/L	0.021
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	\$ICP	Manganese	0.0597	mg/L	0.009
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	\$ICP	Nickel	0.002	mg/L	0.003
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	\$ICP	Selenium	0.188	mg/L	0.009
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	\$ICP	Silver	0.000	mg/L	0.003
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	\$ICP	Strontium	0.165	mg/L	0.009
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	\$ICP	Thallium	0.000	mg/L	0.012
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	\$ICP	Tin	0.000	mg/L	0.006
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	\$ICP	Vanadium	0.000	mg/L	0.018
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	\$ICP	Zinc	0.018	mg/L	0.006
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	\$ICP	Titanium	0.000	mg/L	
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	PB_FU	Lead by Furnace	0.059	ug/L	0.5
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	AS_FU	Arsenic by Furnace	2.851	ug/L	1.0
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	CU_FU	Copper by Furnace	AA	ug/L	1
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	NH3	Ammonia as N	0	mg/L	0.5
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	NO2	Nitrite as N	0.0078	mg/l	0.005
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	NO3	Nitrate as N (calculated)	AW	mg/l	
AC05633	RF10	Little Miami Watershed	10	8/17/2012	09:20	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC05634	LM09	Little Miami Watershed	9	8/17/2012	10:10	MF_CF	Fecal Coliform, Membrane Filter	100	CFU/100mL	
AC05634	LM09	Little Miami Watershed	9	8/17/2012	10:10	E-COLI	E.coli (Colilert)	816	MPN	
AC05634	LM09	Little Miami Watershed	9	8/17/2012	10:10	TDS	Total Dissolved Solids	530	mg/L	
AC05634	LM09	Little Miami Watershed	9	8/17/2012	10:10	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC05634	LM09	Little Miami Watershed	9	8/17/2012	10:10	SO4	Sulfate	61.5	mg/L	12.5
AC05634	LM09	Little Miami Watershed	9	8/17/2012	10:10	CL	Chloride	140	mg/L	2.0
AC05634	LM09	Little Miami Watershed	9	8/17/2012	10:10	TSS	Tot. Suspended Solids	19	mg/L	2
AC05634	LM09	Little Miami Watershed	9	8/17/2012	10:10	SSC	Suspended Sediment Concentration	31.6	mg/L	5.0
AC05634	LM09	Little Miami Watershed	9	8/17/2012	10:10	HARD	Hardness as CaCO3	322	mg/l	
AC05634	LM09	Little Miami Watershed	9	8/17/2012	10:10	COD	COD	32	mg/L	
AC05634	LM09	Little Miami Watershed	9	8/17/2012	10:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	922	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05634	LM09	Little Miami Watershed	9	8/17/2012	10:10	TEMP_FLD	Temperature (Field) Celsius	24.89	Deg C	
AC05634	LM09	Little Miami Watershed	9	8/17/2012	10:10	PH_FLD	pH (Field)	7.91	S.U.	
AC05634	LM09	Little Miami Watershed	9	8/17/2012	10:10	DO_FLD	Dissolved Oxygen (field) mg/L	6.00	mg/l	
AC05634	LM09	Little Miami Watershed	9	8/17/2012	10:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	924	uS/cm	
AC05634	LM09	Little Miami Watershed	9	8/17/2012	10:10	NH3	Ammonia as N	0	mg/L	0.5
AC05634	LM09	Little Miami Watershed	9	8/17/2012	10:10	NO3NO2	Nitrate + Nitrite	2.12	mg/L	0.5
AC05634	LM09	Little Miami Watershed	9	8/17/2012	10:10	TKN	Total Kjeldahl Nitrogen	0.8587	mg/L	0.5
AC05634	LM09	Little Miami Watershed	9	8/17/2012	10:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05634	LM09	Little Miami Watershed	9	8/17/2012	10:10	NO2	Nitrite as N	0.0395	mg/l	0.005
AC05634	LM09	Little Miami Watershed	9	8/17/2012	10:10	NO3	Nitrate as N (calculated)	2.0805	mg/l	
AC05634	LM09	Little Miami Watershed	9	8/17/2012	10:10	CHLOROPHYLL	Chlorophyll	22.4	mg/m3	1.00
AC05635	LM11	Little Miami Watershed	11	8/17/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	220	CFU/100mL	
AC05635	LM11	Little Miami Watershed	11	8/17/2012	10:30	E-COLI	E.coli (Colilert)	172	MPN	
AC05635	LM11	Little Miami Watershed	11	8/17/2012	10:30	TDS	Total Dissolved Solids	500	mg/L	
AC05635	LM11	Little Miami Watershed	11	8/17/2012	10:30	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC05635	LM11	Little Miami Watershed	11	8/17/2012	10:30	SO4	Sulfate	59.0	mg/L	12.5
AC05635	LM11	Little Miami Watershed	11	8/17/2012	10:30	CL	Chloride	105	mg/L	1.00
AC05635	LM11	Little Miami Watershed	11	8/17/2012	10:30	TSS	Tot. Suspended Solids	10	mg/L	2
AC05635	LM11	Little Miami Watershed	11	8/17/2012	10:30	SSC	Suspended Sediment Concentration	27.4	mg/L	5.0
AC05635	LM11	Little Miami Watershed	11	8/17/2012	10:30	HARD	Hardness as CaCO3	330	mg/l	
AC05635	LM11	Little Miami Watershed	11	8/17/2012	10:30	COD	COD	34	mg/L	
AC05635	LM11	Little Miami Watershed	11	8/17/2012	10:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	809	uS/cm	
AC05635	LM11	Little Miami Watershed	11	8/17/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	24.36	Deg C	
AC05635	LM11	Little Miami Watershed	11	8/17/2012	10:30	PH_FLD	pH (Field)	7.72	S.U.	
AC05635	LM11	Little Miami Watershed	11	8/17/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	6.20	mg/l	
AC05635	LM11	Little Miami Watershed	11	8/17/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	819	uS/cm	
AC05635	LM11	Little Miami Watershed	11	8/17/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC05635	LM11	Little Miami Watershed	11	8/17/2012	10:30	NO3NO2	Nitrate + Nitrite	2.39	mg/L	0.5
AC05635	LM11	Little Miami Watershed	11	8/17/2012	10:30	TKN	Total Kjeldahl Nitrogen	0.7878	mg/L	0.5
AC05635	LM11	Little Miami Watershed	11	8/17/2012	10:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05635	LM11	Little Miami Watershed	11	8/17/2012	10:30	NO2	Nitrite as N	0.0419	mg/l	0.005
AC05635	LM11	Little Miami Watershed	11	8/17/2012	10:30	NO3	Nitrate as N (calculated)	2.3481	mg/l	
AC05635	LM11	Little Miami Watershed	11	8/17/2012	10:30	CHLOROPHYLL	Chlorophyll	12.3	mg/m3	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05636	LM12	Little Miami Watershed	12 (3261-04)	8/17/2012	10:50	MF_CF	Fecal Coliform, Membrane Filter	200	CFU/100mL	
AC05636	LM12	Little Miami Watershed	12 (3261-04)	8/17/2012	10:50	E-COLI	E.coli (Colilert)	238	MPN	
AC05636	LM12	Little Miami Watershed	12 (3261-04)	8/17/2012	10:50	TDS	Total Dissolved Solids	510	mg/L	
AC05636	LM12	Little Miami Watershed	12 (3261-04)	8/17/2012	10:50	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC05636	LM12	Little Miami Watershed	12 (3261-04)	8/17/2012	10:50	SO4	Sulfate	58.8	mg/L	12.5
AC05636	LM12	Little Miami Watershed	12 (3261-04)	8/17/2012	10:50	CL	Chloride	101	mg/L	1.00
AC05636	LM12	Little Miami Watershed	12 (3261-04)	8/17/2012	10:50	TSS	Tot. Suspended Solids	26	mg/L	2
AC05636	LM12	Little Miami Watershed	12 (3261-04)	8/17/2012	10:50	SSC	Suspended Sediment Concentration	29.1	mg/L	5.0
AC05636	LM12	Little Miami Watershed	12 (3261-04)	8/17/2012	10:50	HARD	Hardness as CaCO3	332	mg/l	
AC05636	LM12	Little Miami Watershed	12 (3261-04)	8/17/2012	10:50	COD	COD	45	mg/L	
AC05636	LM12	Little Miami Watershed	12 (3261-04)	8/17/2012	10:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	797	uS/cm	
AC05636	LM12	Little Miami Watershed	12 (3261-04)	8/17/2012	10:50	TEMP_FLD	Temperature (Field) Celsius	24.20	Deg C	
AC05636	LM12	Little Miami Watershed	12 (3261-04)	8/17/2012	10:50	PH_FLD	pH (Field)	7.73	S.U.	
AC05636	LM12	Little Miami Watershed	12 (3261-04)	8/17/2012	10:50	DO_FLD	Dissolved Oxygen (field) mg/L	5.94	mg/l	
AC05636	LM12	Little Miami Watershed	12 (3261-04)	8/17/2012	10:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	810	uS/cm	
AC05636	LM12	Little Miami Watershed	12 (3261-04)	8/17/2012	10:50	NH3	Ammonia as N	0	mg/L	0.5
AC05636	LM12	Little Miami Watershed	12 (3261-04)	8/17/2012	10:50	NO3NO2	Nitrate + Nitrite	2.33	mg/L	0.5
AC05636	LM12	Little Miami Watershed	12 (3261-04)	8/17/2012	10:50	TKN	Total Kjeldahl Nitrogen	0.9494	mg/L	0.5
AC05636	LM12	Little Miami Watershed	12 (3261-04)	8/17/2012	10:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05636	LM12	Little Miami Watershed	12 (3261-04)	8/17/2012	10:50	NO2	Nitrite as N	0.0392	mg/l	0.005
AC05636	LM12	Little Miami Watershed	12 (3261-04)	8/17/2012	10:50	NO3	Nitrate as N (calculated)	2.2908	mg/l	
AC05636	LM12	Little Miami Watershed	12 (3261-04)	8/17/2012	10:50	CHLOROPHYLL	Chlorophyll	19.2	mg/m3	1.00
AC05637	LM15	Little Miami Watershed	15	8/17/2012	11:20	MF_CF	Fecal Coliform, Membrane Filter	143	CFU/100mL	
AC05637	LM15	Little Miami Watershed	15	8/17/2012	11:20	E-COLI	E.coli (Colilert)	162	MPN	
AC05637	LM15	Little Miami Watershed	15	8/17/2012	11:20	TDS	Total Dissolved Solids	480	mg/L	
AC05637	LM15	Little Miami Watershed	15	8/17/2012	11:20	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC05637	LM15	Little Miami Watershed	15	8/17/2012	11:20	SO4	Sulfate	58.5	mg/L	12.5
AC05637	LM15	Little Miami Watershed	15	8/17/2012	11:20	CL	Chloride	101	mg/L	1.00
AC05637	LM15	Little Miami Watershed	15	8/17/2012	11:20	TSS	Tot. Suspended Solids	34	mg/L	2
AC05637	LM15	Little Miami Watershed	15	8/17/2012	11:20	SSC	Suspended Sediment Concentration	30.2	mg/L	5.0
AC05637	LM15	Little Miami Watershed	15	8/17/2012	11:20	HARD	Hardness as CaCO3	304	mg/l	
AC05637	LM15	Little Miami Watershed	15	8/17/2012	11:20	COD	COD	32	mg/L	
AC05637	LM15	Little Miami Watershed	15	8/17/2012	11:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	833	uS/cm	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05637	LM15	Little Miami Watershed	15	8/17/2012	11:20	TEMP_FLD	Temperature (Field) Celsius	25.52	Deg C	
AC05637	LM15	Little Miami Watershed	15	8/17/2012	11:20	PH_FLD	pH (Field)	7.74	S.U.	
AC05637	LM15	Little Miami Watershed	15	8/17/2012	11:20	DO_FLD	Dissolved Oxygen (field) mg/L	8.28	mg/l	
AC05637	LM15	Little Miami Watershed	15	8/17/2012	11:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	830	uS/cm	
AC05637	LM15	Little Miami Watershed	15	8/17/2012	11:20	NH3	Ammonia as N	0	mg/L	0.5
AC05637	LM15	Little Miami Watershed	15	8/17/2012	11:20	NO3NO2	Nitrate + Nitrite	1.82	mg/L	0.5
AC05637	LM15	Little Miami Watershed	15	8/17/2012	11:20	TKN	Total Kjeldahl Nitrogen	0.9034	mg/L	0.5
AC05637	LM15	Little Miami Watershed	15	8/17/2012	11:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05637	LM15	Little Miami Watershed	15	8/17/2012	11:20	NO2	Nitrite as N	0.0325	mg/l	0.005
AC05637	LM15	Little Miami Watershed	15	8/17/2012	11:20	NO3	Nitrate as N (calculated)	1.7875	mg/l	
AC05637	LM15	Little Miami Watershed	15	8/17/2012	11:20	CHLOROPHYLL	Chlorophyll	10.2	mg/m3	1.00
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	MF_CF	Fecal Coliform, Membrane Filter	50	CFU/100mL	
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	E-COLI	E.coli (Colilert)	49	MPN	
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	TDS	Total Dissolved Solids	510	mg/L	
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	SO4	Sulfate	77.0	mg/L	12.5
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	CL	Chloride	163	mg/L	5.0
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	TSS	Tot. Suspended Solids	12	mg/L	2
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	SSC	Suspended Sediment Concentration	15.8	mg/L	5.0
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	HARD	Hardness as CaCO3	344	mg/l	
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	COD	COD	27	mg/L	
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1080	uS/cm	
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	TEMP_FLD	Temperature (Field) Celsius	23.36	Deg C	
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	PH_FLD	pH (Field)	7.95	S.U.	
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	DO_FLD	Dissolved Oxygen (field) mg/L	7.86	mg/l	
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	1114	uS/cm	
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	\$ICP	Aluminum	0.342	mg/L	0.348
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	\$ICP	Antimony	0.00	mg/L	0.006
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	\$ICP	Arsenic	0.00534	mg/L	0.012
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	\$ICP	Barium	0.0771	mg/L	0.003
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	\$ICP	Calcium	81.1	mg/L	0.066

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	\$ICP	Chromium	0.00	mg/L	0.006
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	\$ICP	Copper	0.00	mg/L	0.006
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	\$ICP	Iron	0.513	mg/L	0.018
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	\$ICP	Lead	0.00	mg/L	0.006
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	\$ICP	Magnesium	28.6	mg/L	0.021
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	\$ICP	Manganese	0.0404	mg/L	0.009
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	\$ICP	Nickel	0.00211	mg/L	0.003
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	\$ICP	Selenium	0.00721	mg/L	0.009
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	\$ICP	Silver	0.00	mg/L	0.003
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	\$ICP	Strontium	0.394	mg/L	0.009
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	\$ICP	Thallium	0.0102	mg/L	0.012
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	\$ICP	Tin	0.00	mg/L	0.006
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	\$ICP	Zinc	0.0270	mg/L	0.006
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	AS_FU	Arsenic by Furnace	0.860	ug/L	1.0
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	CU_FU	Copper by Furnace	3.8	ug/L	1
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	NH3	Ammonia as N	0	mg/L	0.5
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	NO3NO2	Nitrate + Nitrite	3.84	mg/L	0.5
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	TKN	Total Kjeldahl Nitrogen	0.5635	mg/L	0.5
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	TKP	Total Kjeldahl Phosphorus	0.5717	mg/L	0.5
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	NO2	Nitrite as N	0.0303	mg/l	0.005
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	NO3	Nitrate as N (calculated)	3.8097	mg/l	
AC05706	LM01	Little Miami Watershed	1	8/20/2012	10:40	CHLOROPHYLL	Chlorophyll	3.74	mg/m3	1.00
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	21	CFU/100mL	
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	E-COLI	E.coli (Colilert)	35	MPN	
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	TDS	Total Dissolved Solids	440	mg/L	
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	SO4	Sulfate	6.25	mg/L	25.0
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	CL	Chloride	123	mg/L	2.0
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	TSS	Tot. Suspended Solids	22	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	SSC	Suspended Sediment Concentration	23.0	mg/L	5.0
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	HARD	Hardness as CaCO3	334	mg/l	
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	COD	COD	17	mg/L	
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	890	uS/cm	
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	23.83	Deg C	
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	PH_FLD	pH (Field)	8.13	S.U.	
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	9.04	mg/l	
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	910	uS/cm	
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	\$ICP	Aluminum	0.472	mg/L	0.348
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	\$ICP	Antimony	0.00	mg/L	0.006
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	\$ICP	Barium	0.0881	mg/L	0.003
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	\$ICP	Calcium	73.7	mg/L	0.066
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	\$ICP	Chromium	0.00	mg/L	0.006
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	\$ICP	Copper	0.00	mg/L	0.006
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	\$ICP	Iron	0.715	mg/L	0.018
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	\$ICP	Lead	0.00	mg/L	0.006
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	\$ICP	Magnesium	29.2	mg/L	0.021
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	\$ICP	Manganese	0.0573	mg/L	0.009
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	\$ICP	Nickel	0.00197	mg/L	0.003
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	\$ICP	Selenium	0.0140	mg/L	0.009
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	\$ICP	Silver	0.00	mg/L	0.003
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	\$ICP	Strontium	0.390	mg/L	0.009
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	\$ICP	Thallium	0.0223	mg/L	0.012
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	\$ICP	Tin	0.00	mg/L	0.006
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	\$ICP	Zinc	0.0117	mg/L	0.006
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	AS_FU	Arsenic by Furnace	1.219	ug/L	1.0
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	CD_FU	Cadmium by Furnace	AA	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	CU_FU	Copper by Furnace	3.2	ug/L	1
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	NO3NO2	Nitrate + Nitrite	1.77	mg/L	0.5
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	TKN	Total Kjeldahl Nitrogen	0.5894	mg/L	0.5
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	NO2	Nitrite as N	0.0178	mg/l	0.005
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	NO3	Nitrate as N (calculated)	1.7522	mg/l	
AC05707	LM02	Little Miami Watershed	2 (3261-09)	8/20/2012	11:00	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	MF_CF	Fecal Coliform, Membrane Filter	57	CFU/100mL	
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	E-COLI	E.coli (Colilert)	93	MPN	
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	TDS	Total Dissolved Solids	410	mg/L	
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	SO4	Sulfate	62.0	mg/L	25.0
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	CL	Chloride	118	mg/L	2.0
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	TSS	Tot. Suspended Solids	18	mg/L	2
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	SSC	Suspended Sediment Concentration	18.8	mg/L	5.0
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	HARD	Hardness as CaCO3	322	mg/l	
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	COD	COD	25	mg/L	
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	875	uS/cm	
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	TEMP_FLD	Temperature (Field) Celsius	24.27	Deg C	
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	PH_FLD	pH (Field)	7.91	S.U.	
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	DO_FLD	Dissolved Oxygen (field) mg/L	8.86	mg/l	
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	887	uS/cm	
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	\$ICP	Aluminum	0.443	mg/L	0.348
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	\$ICP	Antimony	0.00	mg/L	0.006
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	\$ICP	Arsenic	0.00	mg/L	0.012
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	\$ICP	Barium	0.0857	mg/L	0.003
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	\$ICP	Calcium	72.8	mg/L	0.066
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	\$ICP	Chromium	0.00	mg/L	0.006
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	\$ICP	Copper	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	\$ICP	Iron	0.661	mg/L	0.018
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	\$ICP	Lead	0.00	mg/L	0.006
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	\$ICP	Magnesium	29.0	mg/L	0.021
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	\$ICP	Manganese	0.0567	mg/L	0.009
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	\$ICP	Nickel	0.00201	mg/L	0.003
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	\$ICP	Selenium	0.00985	mg/L	0.009
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	\$ICP	Silver	0.00	mg/L	0.003
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	\$ICP	Strontium	0.380	mg/L	0.009
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	\$ICP	Thallium	0.0248	mg/L	0.012
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	\$ICP	Tin	0.00	mg/L	0.006
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	\$ICP	Zinc	0.00996	mg/L	0.006
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	PB_FU	Lead by Furnace	0.846	ug/L	0.5
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	AS_FU	Arsenic by Furnace	0.491	ug/L	1.0
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	CU_FU	Copper by Furnace	2.6	ug/L	1
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	NH3	Ammonia as N	0	mg/L	0.5
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	NO3NO2	Nitrate + Nitrite	1.83	mg/L	0.5
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	NO2	Nitrite as N	0.0212	mg/l	0.005
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	NO3	Nitrate as N (calculated)	1.8088	mg/l	
AC05708	LM03	Little Miami Watershed	3	8/20/2012	11:20	CHLOROPHYLL	Chlorophyll	8.01	mg/m3	1.00
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	MF_CF	Fecal Coliform, Membrane Filter	57	CFU/100mL	
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	E-COLI	E.coli (Colilert)	55	MPN	
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	TDS	Total Dissolved Solids	450	mg/L	
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	SO4	Sulfate	67.5	mg/L	25.0
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	CL	Chloride	136	mg/L	2.0
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	TSS	Tot. Suspended Solids	6	mg/L	2
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	SSC	Suspended Sediment Concentration	15.6	mg/L	5.0
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	HARD	Hardness as CaCO3	328	mg/l	
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	COD	COD	24	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1203	uS/cm	
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	TEMP_FLD	Temperature (Field) Celsius	23.02	Deg C	
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	PH_FLD	pH (Field)	7.11	S.U.	
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	DO_FLD	Dissolved Oxygen (field) mg/L	8.02	mg/l	
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	1251	uS/cm	
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	\$ICP	Aluminum	0.362	mg/L	0.348
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	\$ICP	Antimony	0.00	mg/L	0.006
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	\$ICP	Barium	0.0804	mg/L	0.003
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	\$ICP	Calcium	71.1	mg/L	0.066
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	\$ICP	Chromium	0.00	mg/L	0.006
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	\$ICP	Copper	0.00	mg/L	0.006
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	\$ICP	Iron	0.566	mg/L	0.018
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	\$ICP	Lead	0.00	mg/L	0.006
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	\$ICP	Magnesium	27.6	mg/L	0.021
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	\$ICP	Manganese	0.0700	mg/L	0.009
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	\$ICP	Nickel	0.00206	mg/L	0.003
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	\$ICP	Selenium	0.0128	mg/L	0.009
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	\$ICP	Silver	0.00	mg/L	0.003
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	\$ICP	Strontium	0.373	mg/L	0.009
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	\$ICP	Thallium	0.0161	mg/L	0.012
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	\$ICP	Tin	0.00	mg/L	0.006
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	\$ICP	Zinc	0.0112	mg/L	0.006
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	PB_FU	Lead by Furnace	1.410	ug/L	0.5
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	AS_FU	Arsenic by Furnace	1.255	ug/L	1.0
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	CU_FU	Copper by Furnace	3.5	ug/L	1
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	NO3NO2	Nitrate + Nitrite	3.38	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	TKN	Total Kjeldahl Nitrogen	0.5377	mg/L	0.5
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	TKP	Total Kjeldahl Phosphorus	0.5049	mg/L	0.5
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	NO2	Nitrite as N	0.0400	mg/l	0.005
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	NO3	Nitrate as N (calculated)	3.3400	mg/l	
AC05709	LM04	Little Miami Watershed	4	8/20/2012	11:30	CHLOROPHYLL	Chlorophyll	6.94	mg/m3	1.00
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	MF_CF	Fecal Coliform, Membrane Filter	64	CFU/100mL	
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	E-COLI	E.coli (Colilert)	66	MPN	
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	TDS	Total Dissolved Solids	500	mg/L	
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	SO4	Sulfate	64.5	mg/L	25.0
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	CL	Chloride	121	mg/L	2.0
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	TSS	Tot. Suspended Solids	18	mg/L	2
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	SSC	Suspended Sediment Concentration	20.3	mg/L	5.0
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	HARD	Hardness as CaCO3	332	mg/l	
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	COD	COD	35	mg/L	
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	878	uS/cm	
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	TEMP_FLD	Temperature (Field) Celsius	23.49	Deg C	
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	PH_FLD	pH (Field)	7.94	S.U.	
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	DO_FLD	Dissolved Oxygen (field) mg/L	8.58	mg/l	
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	904	uS/cm	
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	\$ICP	Aluminum	0.465	mg/L	0.348
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	\$ICP	Antimony	0.00	mg/L	0.006
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	\$ICP	Arsenic	0.00	mg/L	0.012
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	\$ICP	Barium	0.0846	mg/L	0.003
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	\$ICP	Calcium	71.5	mg/L	0.066
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	\$ICP	Chromium	0.00	mg/L	0.006
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	\$ICP	Copper	0.00	mg/L	0.006
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	\$ICP	Iron	0.709	mg/L	0.018
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	\$ICP	Lead	0.00	mg/L	0.006
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	\$ICP	Magnesium	28.2	mg/L	0.021

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	\$ICP	Manganese	0.0671	mg/L	0.009
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	\$ICP	Nickel	0.00158	mg/L	0.003
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	\$ICP	Selenium	0.0104	mg/L	0.009
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	\$ICP	Silver	0.00	mg/L	0.003
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	\$ICP	Strontium	0.378	mg/L	0.009
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	\$ICP	Thallium	0.0125	mg/L	0.012
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	\$ICP	Tin	0.00	mg/L	0.006
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	\$ICP	Zinc	0.0115	mg/L	0.006
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	PB_FU	Lead by Furnace	2.385	ug/L	0.5
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	AS_FU	Arsenic by Furnace	1.592	ug/L	1.0
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	CU_FU	Copper by Furnace	4.0	ug/L	1
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	NH3	Ammonia as N	0	mg/L	0.5
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	NO3NO2	Nitrate + Nitrite	2.03	mg/L	0.5
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	NO2	Nitrite as N	0.0245	mg/l	0.005
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	NO3	Nitrate as N (calculated)	2.0055	mg/l	
AC05710	LM05	Little Miami Watershed	5 (3261-08)	8/20/2012	11:45	CHLOROPHYLL	Chlorophyll	7.48	mg/m3	1.00
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	MF_CF	Fecal Coliform, Membrane Filter	21	CFU/100mL	
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	E-COLI	E.coli (Colilert)	20	MPN	
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	TDS	Total Dissolved Solids	470	mg/L	
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	SO4	Sulfate	64.0	mg/L	25.0
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	CL	Chloride	125	mg/L	2.0
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	TSS	Tot. Suspended Solids	12	mg/L	2
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	SSC	Suspended Sediment Concentration	17.7	mg/L	5.0
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	HARD	Hardness as CaCO3	336	mg/l	
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	COD	COD	41	mg/L	
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	891	uS/cm	
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	TEMP_FLD	Temperature (Field) Celsius	23.92	Deg C	
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	PH_FLD	pH (Field)	8.09	S.U.	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	DO_FLD	Dissolved Oxygen (field) mg/L	7.92	mg/l	
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	909	uS/cm	
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	\$ICP	Aluminum	0.396	mg/L	0.348
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	\$ICP	Antimony	0.00	mg/L	0.006
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	\$ICP	Barium	0.0804	mg/L	0.003
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	\$ICP	Calcium	69.2	mg/L	0.066
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	\$ICP	Chromium	0.00	mg/L	0.006
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	\$ICP	Copper	0.00	mg/L	0.006
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	\$ICP	Iron	0.620	mg/L	0.018
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	\$ICP	Lead	0.00	mg/L	0.006
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	\$ICP	Magnesium	27.3	mg/L	0.021
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	\$ICP	Manganese	0.0693	mg/L	0.009
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	\$ICP	Nickel	0.00162	mg/L	0.003
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	\$ICP	Selenium	0.00662	mg/L	0.009
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	\$ICP	Silver	0.00	mg/L	0.003
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	\$ICP	Strontium	0.364	mg/L	0.009
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	\$ICP	Thallium	0.00795	mg/L	0.012
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	\$ICP	Tin	0.00	mg/L	0.006
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	\$ICP	Zinc	0.0212	mg/L	0.006
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	PB_FU	Lead by Furnace	3.303	ug/L	0.5
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	AS_FU	Arsenic by Furnace	1.610	ug/L	1.0
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	CU_FU	Copper by Furnace	5.0	ug/L	1
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	NH3	Ammonia as N	0	mg/L	0.5
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	NO3NO2	Nitrate + Nitrite	2.51	mg/L	0.5
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	TKN	Total Kjeldahl Nitrogen	0.7359	mg/L	0.5
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	NO2	Nitrite as N	0.0400	mg/l	0.005

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	NO3	Nitrate as N (calculated)	2.4700	mg/l	
AC05711	LM06	Little Miami Watershed	6 (3261-07)	8/20/2012	12:00	CHLOROPHYLL	Chlorophyll	10.7	mg/m3	1.00
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	MF_CF	Fecal Coliform, Membrane Filter	64	CFU/100mL	
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	E-COLI	E.coli (Colilert)	172	MPN	
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	TDS	Total Dissolved Solids	510	mg/L	
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	SO4	Sulfate	62.5	mg/L	12.5
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	CL	Chloride	124	mg/L	2.0
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	TSS	Tot. Suspended Solids	26	mg/L	2
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	SSC	Suspended Sediment Concentration	27.0	mg/L	5.0
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	HARD	Hardness as CaCO3	340	mg/l	
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	COD	COD	14	mg/L	
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	880	uS/cm	
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	TEMP_FLD	Temperature (Field) Celsius	23.96	Deg C	
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	PH_FLD	pH (Field)	8.05	S.U.	
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	DO_FLD	Dissolved Oxygen (field) mg/L	9.00	mg/l	
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	898	uS/cm	
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	\$ICP	Aluminum	0.628	mg/L	0.348
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	\$ICP	Antimony	0.00	mg/L	0.006
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	\$ICP	Arsenic	0.00	mg/L	0.012
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	\$ICP	Barium	0.0806	mg/L	0.003
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	\$ICP	Calcium	69.3	mg/L	0.066
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	\$ICP	Chromium	0.00	mg/L	0.006
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	\$ICP	Copper	0.00	mg/L	0.006
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	\$ICP	Iron	0.984	mg/L	0.018
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	\$ICP	Lead	0.00	mg/L	0.006
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	\$ICP	Magnesium	26.6	mg/L	0.021
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	\$ICP	Manganese	0.0950	mg/L	0.009
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	\$ICP	Nickel	0.00292	mg/L	0.003
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	\$ICP	Selenium	0.0117	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	\$ICP	Silver	0.00	mg/L	0.003
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	\$ICP	Strontium	0.363	mg/L	0.009
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	\$ICP	Thallium	0.00674	mg/L	0.012
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	\$ICP	Tin	0.00	mg/L	0.006
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	\$ICP	Zinc	0.0214	mg/L	0.006
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	PB_FU	Lead by Furnace	2.596	ug/L	0.5
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	AS_FU	Arsenic by Furnace	1.616	ug/L	1.0
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	CU_FU	Copper by Furnace	4.5	ug/L	1
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	NH3	Ammonia as N	0	mg/L	0.5
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	NO3NO2	Nitrate + Nitrite	5.08	mg/L	0.5
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	TKN	Total Kjeldahl Nitrogen	0.5513	mg/L	0.5
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	NO2	Nitrite as N	0.0362	mg/l	0.005
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	NO3	Nitrate as N (calculated)	5.0438	mg/l	
AC05712	LM08	Little Miami Watershed	8 (3261-06)	8/20/2012	12:15	CHLOROPHYLL	Chlorophyll	13.4	mg/m3	1.00
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	MF_CF	Fecal Coliform, Membrane Filter	121	CFU/100mL	
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	E-COLI	E.coli (Colilert)	91	MPN	
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	TDS	Total Dissolved Solids	490	mg/L	
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	SO4	Sulfate	66.5	mg/L	25.0
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	CL	Chloride	130	mg/L	2.0
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	TSS	Tot. Suspended Solids	18	mg/L	2
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	SSC	Suspended Sediment Concentration	25.0	mg/L	5.0
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	HARD	Hardness as CaCO3	330	mg/l	
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	COD	COD	23	mg/L	
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	883	uS/cm	
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	TEMP_FLD	Temperature (Field) Celsius	21.72	Deg C	
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	PH_FLD	pH (Field)	7.31	S.U.	
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	DO_FLD	Dissolved Oxygen (field) mg/L	6.15	mg/l	
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	942	uS/cm	
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	\$ICP	Aluminum	0.620	mg/L	0.348

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	\$ICP	Antimony	0.00	mg/L	0.006
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	\$ICP	Arsenic	0.00588	mg/L	0.012
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	\$ICP	Barium	0.0828	mg/L	0.003
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	\$ICP	Calcium	74.7	mg/L	0.066
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	\$ICP	Chromium	0.00	mg/L	0.006
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	\$ICP	Copper	0.00	mg/L	0.006
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	\$ICP	Iron	1.05	mg/L	0.018
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	\$ICP	Lead	0.00270	mg/L	0.006
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	\$ICP	Magnesium	27.3	mg/L	0.021
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	\$ICP	Manganese	0.132	mg/L	0.009
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	\$ICP	Nickel	0.00211	mg/L	0.003
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	\$ICP	Selenium	0.00883	mg/L	0.009
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	\$ICP	Silver	0.00	mg/L	0.003
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	\$ICP	Strontium	0.374	mg/L	0.009
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	\$ICP	Thallium	0.00912	mg/L	0.012
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	\$ICP	Tin	0.00	mg/L	0.006
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	\$ICP	Zinc	0.0129	mg/L	0.006
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	PB_FU	Lead by Furnace	0.539	ug/L	0.5
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	AS_FU	Arsenic by Furnace	0.806	ug/L	1.0
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	CD_FU	Cadmium by Furnace	3.8	ug/L	1
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	CU_FU	Copper by Furnace	AA	ug/L	1
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	NH3	Ammonia as N	0	mg/L	0.5
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	NO3NO2	Nitrate + Nitrite	2.27	mg/L	0.5
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	TKN	Total Kjeldahl Nitrogen	0.7126	mg/L	0.5
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	NO2	Nitrite as N	0.0362	mg/l	0.005
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	NO3	Nitrate as N (calculated)	2.2338	mg/l	
AC05742	LM07	Little Miami Watershed	7	8/21/2012	08:30	CHLOROPHYLL	Chlorophyll	9.49	mg/m3	1.00
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	MF_CF	Fecal Coliform, Membrane Filter	64	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	E-COLI	E.coli (Colilert)	62	MPN	
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	TDS	Total Dissolved Solids	550	mg/L	
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	SO4	Sulfate	62.2	mg/L	12.5
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	CL	Chloride	140	mg/L	2.0
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	TSS	Tot. Suspended Solids	32	mg/L	2
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	SSC	Suspended Sediment Concentration	28.6	mg/L	5.0
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	HARD	Hardness as CaCO3	326	mg/l	
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	COD	COD	24	mg/L	
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	929	uS/cm	
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	TEMP_FLD	Temperature (Field) Celsius	23.00	Deg C	
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	PH_FLD	pH (Field)	7.67	S.U.	
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	DO_FLD	Dissolved Oxygen (field) mg/L	8.00	mg/l	
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	965	uS/cm	
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	\$ICP	Aluminum	0.588	mg/L	0.348
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	\$ICP	Antimony	0.00	mg/L	0.006
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	\$ICP	Arsenic	0.00641	mg/L	0.012
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	\$ICP	Barium	0.0859	mg/L	0.003
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	\$ICP	Calcium	78.1	mg/L	0.066
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	\$ICP	Chromium	0.00	mg/L	0.006
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	\$ICP	Copper	0.00	mg/L	0.006
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	\$ICP	Iron	0.972	mg/L	0.018
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	\$ICP	Lead	0.00426	mg/L	0.006
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	\$ICP	Magnesium	27.9	mg/L	0.021
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	\$ICP	Manganese	0.0960	mg/L	0.009
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	\$ICP	Nickel	0.00226	mg/L	0.003
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	\$ICP	Selenium	0.0110	mg/L	0.009
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	\$ICP	Silver	0.00	mg/L	0.003
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	\$ICP	Strontium	0.387	mg/L	0.009
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	\$ICP	Thallium	0.00681	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	\$ICP	Tin	0.00	mg/L	0.006
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	\$ICP	Zinc	0.0206	mg/L	0.006
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	PB_FU	Lead by Furnace	0.364	ug/L	0.5
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	AS_FU	Arsenic by Furnace	0.437	ug/L	1.0
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	CD_FU	Cadmium by Furnace	4.3	ug/L	1
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	CU_FU	Copper by Furnace	AA	ug/L	1
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	NH3	Ammonia as N	0	mg/L	0.5
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	NO3NO2	Nitrate + Nitrite	1.90	mg/L	0.5
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	TKN	Total Kjeldahl Nitrogen	0.6829	mg/L	0.5
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	NO2	Nitrite as N	0.0269	mg/l	0.005
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	NO3	Nitrate as N (calculated)	1.8731	mg/l	
AC05743	LM09	Little Miami Watershed	9	8/21/2012	08:50	CHLOROPHYLL	Chlorophyll	11.8	mg/m3	1.00
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	MF_CF	Fecal Coliform, Membrane Filter	260	CFU/100mL	
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	E-COLI	E.coli (Colilert)	231	MPN	
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	TDS	Total Dissolved Solids	270	mg/L	
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	SO4	Sulfate	50.8	mg/L	12.5
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	CL	Chloride	44.6	mg/L	1.00
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	TSS	Tot. Suspended Solids	22	mg/L	2
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	SSC	Suspended Sediment Concentration	21.2	mg/L	5.0
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	HARD	Hardness as CaCO3	234	mg/l	
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	COD	COD	28	mg/L	
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	274	uS/cm	
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	TEMP_FLD	Temperature (Field) Celsius	21.81	Deg C	
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	PH_FLD	pH (Field)	7.38	S.U.	
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	DO_FLD	Dissolved Oxygen (field) mg/L	8.04	mg/l	
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	292	uS/cm	
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	\$ICP	Aluminum	0.519	mg/L	0.348
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	\$ICP	Antimony	0.00	mg/L	0.006
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	\$ICP	Arsenic	0.00726	mg/L	0.012
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	\$ICP	Barium	0.0375	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	\$ICP	Calcium	57.9	mg/L	0.066
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	\$ICP	Chromium	0.00	mg/L	0.006
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	\$ICP	Copper	0.00	mg/L	0.006
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	\$ICP	Iron	0.938	mg/L	0.018
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	\$ICP	Lead	0.00	mg/L	0.006
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	\$ICP	Magnesium	12.3	mg/L	0.021
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	\$ICP	Manganese	0.175	mg/L	0.009
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	\$ICP	Nickel	0.00116	mg/L	0.003
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	\$ICP	Selenium	0.0122	mg/L	0.009
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	\$ICP	Silver	0.00	mg/L	0.003
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	\$ICP	Strontium	0.201	mg/L	0.009
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	\$ICP	Thallium	0.00871	mg/L	0.012
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	\$ICP	Tin	0.00	mg/L	0.006
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	\$ICP	Zinc	0.0134	mg/L	0.006
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	PB_FU	Lead by Furnace	1.792	ug/L	0.5
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	AS_FU	Arsenic by Furnace	0.873	ug/L	1.0
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	CD_FU	Cadmium by Furnace	3.5	ug/L	1
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	CU_FU	Copper by Furnace	AA	ug/L	1
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	NH3	Ammonia as N	0	mg/L	0.5
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	NO3NO2	Nitrate + Nitrite	3.35	mg/L	0.5
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	TKN	Total Kjeldahl Nitrogen	0.6563	mg/L	0.5
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	TKP	Total Kjeldahl Phosphorus	0.5971	mg/L	0.5
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	NO2	Nitrite as N	0.0185	mg/l	0.005
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	NO3	Nitrate as N (calculated)	3.3315	mg/l	
AC05744	LM35	Little Miami Watershed	35	8/21/2012	09:20	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	MF_CF	Fecal Coliform, Membrane Filter	280	CFU/100mL	
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	E-COLI	E.coli (Colilert)	261	MPN	
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	TDS	Total Dissolved Solids	330	mg/L	
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	BOD	Biochemical Oxygen Demand	2	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	SO4	Sulfate	47.0	mg/L	12.5
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	CL	Chloride	46.7	mg/L	1.00
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	TSS	Tot. Suspended Solids	38	mg/L	2
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	SSC	Suspended Sediment Concentration	40.0	mg/L	5.0
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	HARD	Hardness as CaCO3	222	mg/l	
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	COD	COD	32	mg/L	
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	498	uS/cm	
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	TEMP_FLD	Temperature (Field) Celsius	22.07	Deg C	
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	PH_FLD	pH (Field)	7.29	S.U.	
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	DO_FLD	Dissolved Oxygen (field) mg/L	6.92	mg/l	
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	528	uS/cm	
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	\$ICP	Aluminum	0.858	mg/L	0.348
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	\$ICP	Antimony	0.00	mg/L	0.006
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	\$ICP	Arsenic	0.00	mg/L	0.012
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	\$ICP	Barium	0.0418	mg/L	0.003
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	\$ICP	Calcium	60.1	mg/L	0.066
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	\$ICP	Chromium	0.00	mg/L	0.006
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	\$ICP	Copper	0.00	mg/L	0.006
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	\$ICP	Iron	1.57	mg/L	0.018
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	\$ICP	Lead	0.00	mg/L	0.006
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	\$ICP	Magnesium	13.0	mg/L	0.021
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	\$ICP	Manganese	0.240	mg/L	0.009
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	\$ICP	Nickel	0.00253	mg/L	0.003
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	\$ICP	Selenium	0.00664	mg/L	0.009
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	\$ICP	Silver	0.00	mg/L	0.003
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	\$ICP	Strontium	0.203	mg/L	0.009
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	\$ICP	Thallium	0.00667	mg/L	0.012
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	\$ICP	Tin	0.00	mg/L	0.006
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	\$ICP	Zinc	0.0162	mg/L	0.006



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	PB_FU	Lead by Furnace	1.180	ug/L	0.5
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	AS_FU	Arsenic by Furnace	1.423	ug/L	1.0
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	CD_FU	Cadmium by Furnace	4.1	ug/L	1
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	CU_FU	Copper by Furnace	AA	ug/L	1
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	NH3	Ammonia as N	0	mg/L	0.5
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	NO3NO2	Nitrate + Nitrite	3.36	mg/L	0.5
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	TKN	Total Kjeldahl Nitrogen	0.8716	mg/L	0.5
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	TKP	Total Kjeldahl Phosphorus	0.7585	mg/L	0.5
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	NO2	Nitrite as N	0.0242	mg/l	0.005
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	NO3	Nitrate as N (calculated)	3.3358	mg/l	
AC05745	LM36	Little Miami Watershed	36	8/21/2012	09:40	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	64	CFU/100mL	
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	E-COLI	E.coli (Colilert)	99	MPN	
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	TDS	Total Dissolved Solids	400	mg/L	
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	SO4	Sulfate	59.5	mg/L	12.5
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	CL	Chloride	105	mg/L	1.00
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	TSS	Tot. Suspended Solids	30	mg/L	2
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	SSC	Suspended Sediment Concentration	26.7	mg/L	5.0
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	HARD	Hardness as CaCO3	302	mg/l	
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	COD	COD	30	mg/L	
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	790	uS/cm	
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	22.63	Deg C	
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	PH_FLD	pH (Field)	7.76	S.U.	
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	8.26	mg/l	
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	827	uS/cm	
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	\$ICP	Aluminum	0.566	mg/L	0.348
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	\$ICP	Antimony	0.00	mg/L	0.006
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	\$ICP	Barium	0.0678	mg/L	0.003
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	\$ICP	Calcium	68.7	mg/L	0.066

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	\$ICP	Chromium	0.00	mg/L	0.006
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	\$ICP	Copper	0.00	mg/L	0.006
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	\$ICP	Iron	0.973	mg/L	0.018
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	\$ICP	Lead	0.00	mg/L	0.006
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	\$ICP	Magnesium	22.3	mg/L	0.021
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	\$ICP	Manganese	0.122	mg/L	0.009
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	\$ICP	Nickel	0.00132	mg/L	0.003
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	\$ICP	Selenium	0.00	mg/L	0.009
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	\$ICP	Silver	0.00	mg/L	0.003
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	\$ICP	Strontium	0.313	mg/L	0.009
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	\$ICP	Thallium	0.00883	mg/L	0.012
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	\$ICP	Tin	0.00	mg/L	0.006
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	\$ICP	Zinc	0.0113	mg/L	0.006
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	PB_FU	Lead by Furnace	1.208	ug/L	0.5
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	AS_FU	Arsenic by Furnace	1.369	ug/L	1.0
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	CD_FU	Cadmium by Furnace	3.3	ug/L	1
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	CU_FU	Copper by Furnace	AA	ug/L	1
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	NO3NO2	Nitrate + Nitrite	2.31	mg/L	0.5
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	TKN	Total Kjeldahl Nitrogen	0.6894	mg/L	0.5
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	NO2	Nitrite as N	0.0289	mg/l	0.005
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	NO3	Nitrate as N (calculated)	2.2811	mg/l	
AC05746	LM11	Little Miami Watershed	11	8/21/2012	10:00	CHLOROPHYLL	Chlorophyll	8.54	mg/m3	1.00
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	MF_CF	Fecal Coliform, Membrane Filter	240	CFU/100mL	
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	E-COLI	E.coli (Colilert)	152	MPN	
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	TDS	Total Dissolved Solids	440	mg/L	
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	SO4	Sulfate	62.5	mg/L	12.5
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	CL	Chloride	138	mg/L	2.0
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	TSS	Tot. Suspended Solids	24	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	SSC	Suspended Sediment Concentration	20.8	mg/L	5.0
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	HARD	Hardness as CaCO3	302	mg/l	
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	COD	COD	27	mg/L	
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	896	uS/cm	
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	TEMP_FLD	Temperature (Field) Celsius	22.50	Deg C	
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	PH_FLD	pH (Field)	7.90	S.U.	
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	DO_FLD	Dissolved Oxygen (field) mg/L	7.73	mg/l	
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	941	uS/cm	
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	\$ICP	Aluminum	0.921	mg/L	0.348
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	\$ICP	Antimony	0.00	mg/L	0.006
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	\$ICP	Arsenic	0.00577	mg/L	0.012
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	\$ICP	Barium	0.0821	mg/L	0.003
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	\$ICP	Calcium	74.8	mg/L	0.066
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	\$ICP	Chromium	0.00	mg/L	0.006
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	\$ICP	Copper	0.00	mg/L	0.006
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	\$ICP	Iron	1.60	mg/L	0.018
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	\$ICP	Lead	0.00205	mg/L	0.006
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	\$ICP	Magnesium	26.2	mg/L	0.021
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	\$ICP	Manganese	0.223	mg/L	0.009
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	\$ICP	Nickel	0.00214	mg/L	0.003
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	\$ICP	Selenium	0.00435	mg/L	0.009
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	\$ICP	Silver	0.00	mg/L	0.003
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	\$ICP	Strontium	0.349	mg/L	0.009
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	\$ICP	Thallium	0.00947	mg/L	0.012
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	\$ICP	Tin	0.00	mg/L	0.006
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	\$ICP	Zinc	0.0200	mg/L	0.006
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	AS_FU	Arsenic by Furnace	1.137	ug/L	1.0
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	CD_FU	Cadmium by Furnace	4.2	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	CU_FU	Copper by Furnace	AA	ug/L	1
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	NH3	Ammonia as N	0	mg/L	0.5
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	NO3NO2	Nitrate + Nitrite	2.01	mg/L	0.5
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	TKN	Total Kjeldahl Nitrogen	0.9448	mg/L	0.5
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	NO2	Nitrite as N	0.0281	mg/l	0.005
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	NO3	Nitrate as N (calculated)	1.9819	mg/l	
AC05747	LM10	Little Miami Watershed	10 (3261-10)	8/21/2012	10:20	CHLOROPHYLL	Chlorophyll	13.9	mg/m3	1.00
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	MF_CF	Fecal Coliform, Membrane Filter	410	CFU/100mL	
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	E-COLI	E.coli (Colilert)	579	MPN	
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	TDS	Total Dissolved Solids	410	mg/L	
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	SO4	Sulfate	96.5	mg/L	25.0
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	CL	Chloride	122	mg/L	2.0
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	TSS	Tot. Suspended Solids	12	mg/L	2
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	SSC	Suspended Sediment Concentration	5.7	mg/L	5.0
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	HARD	Hardness as CaCO3	232	mg/l	
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	COD	COD	22	mg/L	
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	867	uS/cm	
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	TEMP_FLD	Temperature (Field) Celsius	20.16	Deg C	
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	PH_FLD	pH (Field)	7.85	S.U.	
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	DO_FLD	Dissolved Oxygen (field) mg/L	7.44	mg/l	
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	955	uS/cm	
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	\$ICP	Aluminum	0.147	mg/L	0.348
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	\$ICP	Antimony	0.00	mg/L	0.006
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	\$ICP	Arsenic	0.00	mg/L	0.012
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	\$ICP	Barium	0.0371	mg/L	0.003
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	\$ICP	Calcium	64.2	mg/L	0.066
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	\$ICP	Chromium	0.00	mg/L	0.006
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	\$ICP	Copper	0.00534	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	\$ICP	Iron	0.240	mg/L	0.018
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	\$ICP	Lead	0.00	mg/L	0.006
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	\$ICP	Magnesium	15.7	mg/L	0.021
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	\$ICP	Manganese	0.0559	mg/L	0.009
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	\$ICP	Nickel	0.00130	mg/L	0.003
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	\$ICP	Selenium	0.00	mg/L	0.009
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	\$ICP	Silver	0.00	mg/L	0.003
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	\$ICP	Strontium	0.259	mg/L	0.009
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	\$ICP	Thallium	0.00728	mg/L	0.012
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	\$ICP	Tin	0.00	mg/L	0.006
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	\$ICP	Zinc	0.0362	mg/L	0.006
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	AS_FU	Arsenic by Furnace	1.788	ug/L	1.0
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	CD_FU	Cadmium by Furnace	11.1	ug/L	1
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	CU_FU	Copper by Furnace	AA	ug/L	1
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	NH3	Ammonia as N	0	mg/L	0.5
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	NO3NO2	Nitrate + Nitrite	41.65	mg/L	0.5
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	TKP	Total Kjeldahl Phosphorus	2.117	mg/L	0.5
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	NO2	Nitrite as N	0.0787	mg/l	0.005
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	NO3	Nitrate as N (calculated)	41.5213	mg/l	
AC05748	LM38	Little Miami Watershed	38	8/21/2012	11:10	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	MF_CF	Fecal Coliform, Membrane Filter	210	CFU/100mL	
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	E-COLI	E.coli (Colilert)	125	MPN	
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	TDS	Total Dissolved Solids	580	mg/L	
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	SO4	Sulfate	69.9	mg/L	5.0
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	CL	Chloride	132	mg/L	2.0
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	TSS	Tot. Suspended Solids	96	mg/L	2
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	SSC	Suspended Sediment Concentration	66.7	mg/L	5.0
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	HARD	Hardness as CaCO3	238	mg/l	
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	COD	COD	18	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	915	uS/cm	
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	TEMP_FLD	Temperature (Field) Celsius	19.95	Deg C	
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	PH_FLD	pH (Field)	7.24	S.U.	
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	DO_FLD	Dissolved Oxygen (field) mg/L	6.94	mg/l	
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	CONDUCTIVITY	Specific Conductivity (uS/cm)	1012	uS/cm	
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	\$ICP	Aluminum	1.79	mg/L	0.348
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	\$ICP	Antimony	0.00	mg/L	0.006
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	\$ICP	Arsenic	0.00573	mg/L	0.012
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	\$ICP	Barium	0.0400	mg/L	0.003
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	\$ICP	Beryllium	0.00	mg/L	0.009
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	\$ICP	Cadmium	0.00	mg/L	0.012
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	\$ICP	Calcium	68.0	mg/L	0.066
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	\$ICP	Chromium	0.00	mg/L	0.006
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	\$ICP	Cobalt	0.00	mg/L	0.006
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	\$ICP	Copper	0.0171	mg/L	0.006
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	\$ICP	Iron	2.55	mg/L	0.018
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	\$ICP	Lead	0.00490	mg/L	0.006
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	\$ICP	Magnesium	17.0	mg/L	0.021
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	\$ICP	Manganese	0.166	mg/L	0.009
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	\$ICP	Nickel	0.00419	mg/L	0.003
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	\$ICP	Selenium	0.0137	mg/L	0.009
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	\$ICP	Silver	0.00	mg/L	0.003
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	\$ICP	Strontium	0.243	mg/L	0.009
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	\$ICP	Thallium	0.00682	mg/L	0.012
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	\$ICP	Tin	0.00	mg/L	0.006
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	\$ICP	Vanadium	0.00	mg/L	0.018
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	\$ICP	Zinc	0.0698	mg/L	0.006
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	AS_FU	Arsenic by Furnace	4.468	ug/L	1.0
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	CU_FU	Copper by Furnace	17.2	ug/L	1
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	NH3	Ammonia as N	0	mg/L	0.5
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	NO3NO2	Nitrate + Nitrite	29.0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	TKP	Total Kjeldahl Phosphorus	3.338	mg/L	0.5
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	NO2	Nitrite as N	0.0392	mg/l	0.005
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	NO3	Nitrate as N (calculated)	28.9608	mg/l	
AC05795	LM37	Little Miami Watershed	37	8/22/2012	08:55	CHLOROPHYLL	Chlorophyll	18.0	mg/m3	1.00
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	MF_CF	Fecal Coliform, Membrane Filter	171	CFU/100mL	
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	E-COLI	E.coli (Colilert)	192	MPN	
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	TDS	Total Dissolved Solids	280	mg/L	
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	SO4	Sulfate	43.5	mg/L	12.5
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	CL	Chloride	52.2	mg/L	1.00
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	TSS	Tot. Suspended Solids	98	mg/L	2
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	SSC	Suspended Sediment Concentration	27.3	mg/L	5.0
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	HARD	Hardness as CaCO3	236	mg/l	
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	COD	COD	5	mg/L	
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	531	uS/cm	
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	TEMP_FLD	Temperature (Field) Celsius	21.40	Deg C	
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	PH_FLD	pH (Field)	7.20	S.U.	
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	DO_FLD	Dissolved Oxygen (field) mg/L	6.93	mg/l	
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	CONDUCTIVITY	Specific Conductivity (uS/cm)	570	uS/cm	
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	\$ICP	Aluminum	0.992	mg/L	0.348
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	\$ICP	Antimony	0.00	mg/L	0.006
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	\$ICP	Arsenic	0.00698	mg/L	0.012
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	\$ICP	Barium	0.0433	mg/L	0.003
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	\$ICP	Beryllium	0.00	mg/L	0.009
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	\$ICP	Cadmium	0.00	mg/L	0.012
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	\$ICP	Calcium	63.9	mg/L	0.066
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	\$ICP	Chromium	0.00	mg/L	0.006
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	\$ICP	Cobalt	0.00	mg/L	0.006
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	\$ICP	Copper	0.00434	mg/L	0.006
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	\$ICP	Iron	1.80	mg/L	0.018
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	\$ICP	Lead	0.00	mg/L	0.006
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	\$ICP	Magnesium	13.8	mg/L	0.021

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	\$ICP	Manganese	0.231	mg/L	0.009
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	\$ICP	Nickel	0.00278	mg/L	0.003
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	\$ICP	Selenium	0.0107	mg/L	0.009
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	\$ICP	Silver	0.00	mg/L	0.003
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	\$ICP	Strontium	0.211	mg/L	0.009
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	\$ICP	Thallium	0.00667	mg/L	0.012
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	\$ICP	Tin	0.00	mg/L	0.006
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	\$ICP	Vanadium	0.00	mg/L	0.018
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	\$ICP	Zinc	0.0204	mg/L	0.006
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	AS_FU	Arsenic by Furnace	2.394	ug/L	1.0
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	CU_FU	Copper by Furnace	4.2	ug/L	1
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	NH3	Ammonia as N	0	mg/L	0.5
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	NO3NO2	Nitrate + Nitrite	3.34	mg/L	0.5
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	TKN	Total Kjeldahl Nitrogen	0.5985	mg/L	0.5
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	TKP	Total Kjeldahl Phosphorus	0.8955	mg/L	0.5
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	NO2	Nitrite as N	0.0323	mg/l	0.005
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	NO3	Nitrate as N (calculated)	3.3077	mg/l	
AC05796	LM34	Little Miami Watershed	34	8/22/2012	09:25	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	MF_CF	Fecal Coliform, Membrane Filter	7	CFU/100mL	
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	E-COLI	E.coli (Colilert)	37	MPN	
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	TDS	Total Dissolved Solids	390	mg/L	
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	SO4	Sulfate	49.2	mg/L	12.5
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	CL	Chloride	103	mg/L	1.00
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	TSS	Tot. Suspended Solids	6	mg/L	2
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	HARD	Hardness as CaCO3	324	mg/l	
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	COD	COD	5	mg/L	
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	691	uS/cm	
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	TEMP_FLD	Temperature (Field) Celsius	17.17	Deg C	
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	PH_FLD	pH (Field)	7.62	S.U.	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	DO_FLD	Dissolved Oxygen (field) mg/L	7.68	mg/l	
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	CONDUCTIVITY	Specific Conductivity (uS/cm)	813	uS/cm	
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	\$ICP	Aluminum	0.00	mg/L	0.348
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	\$ICP	Antimony	0.00229	mg/L	0.006
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	\$ICP	Arsenic	0.00829	mg/L	0.012
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	\$ICP	Barium	0.0391	mg/L	0.003
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	\$ICP	Beryllium	0.00	mg/L	0.009
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	\$ICP	Cadmium	0.00	mg/L	0.012
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	\$ICP	Calcium	85.4	mg/L	0.066
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	\$ICP	Chromium	0.00	mg/L	0.006
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	\$ICP	Cobalt	0.00	mg/L	0.006
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	\$ICP	Copper	0.00352	mg/L	0.006
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	\$ICP	Iron	0.131	mg/L	0.018
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	\$ICP	Lead	0.00	mg/L	0.006
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	\$ICP	Magnesium	17.0	mg/L	0.021
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	\$ICP	Manganese	0.0294	mg/L	0.009
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	\$ICP	Nickel	0.00175	mg/L	0.003
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	\$ICP	Selenium	0.0197	mg/L	0.009
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	\$ICP	Silver	0.00	mg/L	0.003
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	\$ICP	Strontium	0.399	mg/L	0.009
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	\$ICP	Thallium	0.00525	mg/L	0.012
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	\$ICP	Tin	0.00	mg/L	0.006
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	\$ICP	Vanadium	0.00	mg/L	0.018
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	\$ICP	Zinc	0.00480	mg/L	0.006
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	AS_FU	Arsenic by Furnace	4.370	ug/L	1.0
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	CU_FU	Copper by Furnace	5.6	ug/L	1
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	NH3	Ammonia as N	0	mg/L	0.5
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	TKN	Total Kjeldahl Nitrogen	0.4997	mg/L	0.5
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	NO2	Nitrite as N	0.0020	mg/l	0.005

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	NO3	Nitrate as N (calculated)	AW	mg/l	
AC05797	LM49	Little Miami Watershed	49	8/22/2012	09:55	CHLOROPHYLL	Chlorophyll	4.27	mg/m3	1.00
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	MF_CF	Fecal Coliform, Membrane Filter	43	CFU/100mL	
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	E-COLI	E.coli (Colilert)	69	MPN	
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	TDS	Total Dissolved Solids	570	mg/L	
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	SO4	Sulfate	81.0	mg/L	25.0
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	CL	Chloride	187	mg/L	4.0
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	TSS	Tot. Suspended Solids	6	mg/L	2
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	HARD	Hardness as CaCO3	270	mg/l	
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	COD	COD	5	mg/L	
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	847	uS/cm	
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	TEMP_FLD	Temperature (Field) Celsius	19.00	Deg C	
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	PH_FLD	pH (Field)	7.5	S.U.	
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	DO_FLD	Dissolved Oxygen (field) mg/L	6.05	mg/l	
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	957	uS/cm	
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	\$ICP	Aluminum	0.00	mg/L	0.348
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	\$ICP	Antimony	0.00	mg/L	0.006
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	\$ICP	Arsenic	0.00	mg/L	0.012
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	\$ICP	Barium	0.0450	mg/L	0.003
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	\$ICP	Calcium	82.6	mg/L	0.066
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	\$ICP	Chromium	0.00	mg/L	0.006
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	\$ICP	Copper	0.00304	mg/L	0.006
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	\$ICP	Iron	0.139	mg/L	0.018
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	\$ICP	Lead	0.00	mg/L	0.006
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	\$ICP	Magnesium	16.2	mg/L	0.021
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	\$ICP	Manganese	0.0884	mg/L	0.009
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	\$ICP	Nickel	0.00	mg/L	0.003
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	\$ICP	Selenium	0.0208	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	\$ICP	Silver	0.00	mg/L	0.003
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	\$ICP	Strontium	0.406	mg/L	0.009
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	\$ICP	Thallium	0.00517	mg/L	0.012
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	\$ICP	Tin	0.00	mg/L	0.006
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	\$ICP	Zinc	0.00430	mg/L	0.006
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	AS_FU	Arsenic by Furnace	4.254	ug/L	1.0
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	CU_FU	Copper by Furnace	3.8	ug/L	1
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	NH3	Ammonia as N	0	mg/L	0.5
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	TKN	Total Kjeldahl Nitrogen	0.2536	mg/L	0.5
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	NO2	Nitrite as N	0.0021	mg/l	0.005
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	NO3	Nitrate as N (calculated)	AW	mg/l	
AC05798	LM50	Little Miami Watershed	50	8/22/2012	10:10	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	50	CFU/100mL	
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	E-COLI	E.coli (Colilert)	17	MPN	
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	TDS	Total Dissolved Solids	380	mg/L	
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	SO4	Sulfate	53.0	mg/L	12.5
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	CL	Chloride	125	mg/L	2.0
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	TSS	Tot. Suspended Solids	5	mg/L	2
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	HARD	Hardness as CaCO3	286	mg/l	
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	COD	COD	5	mg/L	
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	729	uS/cm	
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	20.15	Deg C	
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	PH_FLD	pH (Field)	7.65	S.U.	
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	6.88	mg/l	
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	804	uS/cm	
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	\$ICP	Aluminum	0.00	mg/L	0.348

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	\$ICP	Antimony	0.00	mg/L	0.006
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	\$ICP	Barium	0.0474	mg/L	0.003
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	\$ICP	Calcium	76.3	mg/L	0.066
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	\$ICP	Chromium	0.00	mg/L	0.006
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	\$ICP	Copper	0.00215	mg/L	0.006
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	\$ICP	Iron	0.0578	mg/L	0.018
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	\$ICP	Lead	0.00	mg/L	0.006
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	\$ICP	Magnesium	16.9	mg/L	0.021
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	\$ICP	Manganese	0.0626	mg/L	0.009
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	\$ICP	Nickel	0.00	mg/L	0.003
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	\$ICP	Selenium	0.0173	mg/L	0.009
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	\$ICP	Silver	0.00	mg/L	0.003
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	\$ICP	Strontium	0.307	mg/L	0.009
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	\$ICP	Thallium	0.00596	mg/L	0.012
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	\$ICP	Tin	0.00	mg/L	0.006
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	\$ICP	Zinc	0.00	mg/L	0.006
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	AS_FU	Arsenic by Furnace	0	ug/L	1.0
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	CU_FU	Copper by Furnace	2.3	ug/L	1
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	TKN	Total Kjeldahl Nitrogen	0.2101	mg/L	0.5
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	NO2	Nitrite as N	0.0020	mg/l	0.005
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	NO3	Nitrate as N (calculated)	AW	mg/l	
AC05799	LM52	Little Miami Watershed	52	8/22/2012	10:30	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	MF_CF	Fecal Coliform, Membrane Filter	21	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	E-COLI	E.coli (Colilert)	37	MPN	
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	TDS	Total Dissolved Solids	450	mg/L	
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	SO4	Sulfate	27.5	mg/L	12.5
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	CL	Chloride	123	mg/L	2.0
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	TSS	Tot. Suspended Solids	12	mg/L	2
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	HARD	Hardness as CaCO3	286	mg/l	
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	COD	COD	5	mg/L	
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	731	uS/cm	
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	TEMP_FLD	Temperature (Field) Celsius	20.39	Deg C	
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	PH_FLD	pH (Field)	7.74	S.U.	
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	DO_FLD	Dissolved Oxygen (field) mg/L	6.15	mg/l	
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	802	uS/cm	
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	\$ICP	Antimony	0.00	mg/L	0.006
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	\$ICP	Arsenic	0.00	mg/L	0.012
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	\$ICP	Barium	0.0445	mg/L	0.003
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	\$ICP	Calcium	75.1	mg/L	0.066
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	\$ICP	Chromium	0.00	mg/L	0.006
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	\$ICP	Copper	0.00219	mg/L	0.006
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	\$ICP	Iron	0.0503	mg/L	0.018
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	\$ICP	Lead	0.00	mg/L	0.006
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	\$ICP	Magnesium	16.1	mg/L	0.021
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	\$ICP	Manganese	0.0414	mg/L	0.009
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	\$ICP	Nickel	0.00	mg/L	0.003
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	\$ICP	Selenium	0.0231	mg/L	0.009
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	\$ICP	Silver	0.00	mg/L	0.003
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	\$ICP	Strontium	0.309	mg/L	0.009
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	\$ICP	Thallium	0.00580	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	\$ICP	Tin	0.00	mg/L	0.006
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	\$ICP	Zinc	0.00	mg/L	0.006
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	PB_FU	Lead by Furnace	0	ug/L	0.5
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	AS_FU	Arsenic by Furnace	1.700	ug/L	1.0
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	CU_FU	Copper by Furnace	2.3	ug/L	1
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	NH3	Ammonia as N	0	mg/L	0.5
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	TKN	Total Kjeldahl Nitrogen	0.2843	mg/L	0.5
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	NO2	Nitrite as N	0.0019	mg/l	0.005
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	NO3	Nitrate as N (calculated)	AW	mg/l	
AC05800	LM51	Little Miami Watershed	51	8/22/2012	10:40	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC05801	LM55	Little Miami Watershed	55	8/22/2012	11:05	MF_CF	Fecal Coliform, Membrane Filter	143	CFU/100mL	
AC05801	LM55	Little Miami Watershed	55	8/22/2012	11:05	E-COLI	E.coli (Colilert)	125	MPN	
AC05801	LM55	Little Miami Watershed	55	8/22/2012	11:05	TDS	Total Dissolved Solids	410	mg/L	
AC05801	LM55	Little Miami Watershed	55	8/22/2012	11:05	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05801	LM55	Little Miami Watershed	55	8/22/2012	11:05	SO4	Sulfate	47.2	mg/L	1.00
AC05801	LM55	Little Miami Watershed	55	8/22/2012	11:05	CL	Chloride	107	mg/L	1.00
AC05801	LM55	Little Miami Watershed	55	8/22/2012	11:05	TSS	Tot. Suspended Solids	16	mg/L	2
AC05801	LM55	Little Miami Watershed	55	8/22/2012	11:05	SSC	Suspended Sediment Concentration	6.2	mg/L	5.0
AC05801	LM55	Little Miami Watershed	55	8/22/2012	11:05	HARD	Hardness as CaCO3	240	mg/l	
AC05801	LM55	Little Miami Watershed	55	8/22/2012	11:05	COD	COD	5	mg/L	
AC05801	LM55	Little Miami Watershed	55	8/22/2012	11:05	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	767	uS/cm	
AC05801	LM55	Little Miami Watershed	55	8/22/2012	11:05	TEMP_FLD	Temperature (Field) Celsius	18.84	Deg C	
AC05801	LM55	Little Miami Watershed	55	8/22/2012	11:05	PH_FLD	pH (Field)	8.04	S.U.	
AC05801	LM55	Little Miami Watershed	55	8/22/2012	11:05	DO_FLD	Dissolved Oxygen (field) mg/L	8.53	mg/l	
AC05801	LM55	Little Miami Watershed	55	8/22/2012	11:05	CONDUCTIVITY	Specific Conductivity (uS/cm)	869	uS/cm	
AC05801	LM55	Little Miami Watershed	55	8/22/2012	11:05	NH3	Ammonia as N	0	mg/L	0.5
AC05801	LM55	Little Miami Watershed	55	8/22/2012	11:05	NO3NO2	Nitrate + Nitrite	0.501	mg/L	0.5
AC05801	LM55	Little Miami Watershed	55	8/22/2012	11:05	TKN	Total Kjeldahl Nitrogen	0.2595	mg/L	0.5
AC05801	LM55	Little Miami Watershed	55	8/22/2012	11:05	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05801	LM55	Little Miami Watershed	55	8/22/2012	11:05	NO2	Nitrite as N	0.0024	mg/l	0.005
AC05801	LM55	Little Miami Watershed	55	8/22/2012	11:05	NO3	Nitrate as N (calculated)	0.4986	mg/l	
AC05801	LM55	Little Miami Watershed	55	8/22/2012	11:05	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	MF_CF	Fecal Coliform, Membrane Filter	21	CFU/100mL	
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	E-COLI	E.coli (Colilert)	88	MPN	
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	TDS	Total Dissolved Solids	460	mg/L	
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	SO4	Sulfate	52.0	mg/L	25.0
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	CL	Chloride	132	mg/L	2.00
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	TSS	Tot. Suspended Solids	32	mg/L	2
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	SSC	Suspended Sediment Concentration	30.1	mg/L	5.0
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	HARD	Hardness as CaCO3	282	mg/l	
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	COD	COD	16	mg/L	
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	870	uS/cm	
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	TEMP_FLD	Temperature (Field) Celsius	23.28	Deg C	
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	PH_FLD	pH (Field)	7.73	S.U.	
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	DO_FLD	Dissolved Oxygen (field) mg/L	7.04	mg/l	
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	900	uS/cm	
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	\$ICP	Aluminum	0.629	mg/L	0.348
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	\$ICP	Antimony	0.00	mg/L	0.006
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	\$ICP	Arsenic	0.00	mg/L	0.012
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	\$ICP	Barium	0.0763	mg/L	0.003
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	\$ICP	Calcium	78.1	mg/L	0.066
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	\$ICP	Chromium	0.00	mg/L	0.006
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	\$ICP	Copper	0.00725	mg/L	0.006
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	\$ICP	Iron	1.06	mg/L	0.018
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	\$ICP	Lead	0.00331	mg/L	0.006
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	\$ICP	Magnesium	26.1	mg/L	0.021
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	\$ICP	Manganese	0.119	mg/L	0.009
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	\$ICP	Nickel	0.00351	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	\$ICP	Selenium	0.0216	mg/L	0.009
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	\$ICP	Silver	0.00	mg/L	0.003
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	\$ICP	Strontium	0.325	mg/L	0.009
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	\$ICP	Thallium	0.0146	mg/L	0.012
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	\$ICP	Tin	0.00	mg/L	0.006
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	\$ICP	Zinc	0.0142	mg/L	0.006
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	PB_FU	Lead by Furnace	1.42	ug/L	1.0
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	AS_FU	Arsenic by Furnace	2.39	ug/L	1.0
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	CU_FU	Copper by Furnace	49.	ug/L	1
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	NH3	Ammonia as N	0	mg/L	0.5
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	NO3NO2	Nitrate + Nitrite	2.15	mg/L	0.5
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	TKN	Total Kjeldahl Nitrogen	0.8345	mg/L	0.5
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	NO2	Nitrite as N	0.0239	mg/l	0.005
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	NO3	Nitrate as N (calculated)	2.1261	mg/l	
AC05869	LM12	Little Miami Watershed	12 (3261-04)	8/23/2012	08:45	CHLOROPHYLL	Chlorophyll	9.49	mg/m3	1.00
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	MF_CF	Fecal Coliform, Membrane Filter	64	CFU/100mL	
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	E-COLI	E.coli (Colilert)	154	MPN	
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	TDS	Total Dissolved Solids	500	mg/L	
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	SO4	Sulfate	49.5	mg/L	12.5
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	CL	Chloride	106	mg/L	1.00
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	TSS	Tot. Suspended Solids	38	mg/L	2
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	SSC	Suspended Sediment Concentration	28.7	mg/L	5.0
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	HARD	Hardness as CaCO3	284	mg/l	
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	COD	COD	11	mg/L	
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	839	uS/cm	
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	TEMP_FLD	Temperature (Field) Celsius	22.88	Deg C	
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	PH_FLD	pH (Field)	7.32	S.U.	
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	DO_FLD	Dissolved Oxygen (field) mg/L	6.26	mg/l	
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	875	uS/cm	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	\$ICP	Aluminum	0.590	mg/L	0.348
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	\$ICP	Antimony	0.00	mg/L	0.006
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	\$ICP	Arsenic	0.00607	mg/L	0.012
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	\$ICP	Barium	0.0782	mg/L	0.003
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	\$ICP	Calcium	83.4	mg/L	0.066
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	\$ICP	Chromium	0.00	mg/L	0.006
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	\$ICP	Copper	0.00498	mg/L	0.006
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	\$ICP	Iron	0.996	mg/L	0.018
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	\$ICP	Lead	0.00465	mg/L	0.006
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	\$ICP	Magnesium	26.5	mg/L	0.021
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	\$ICP	Manganese	0.148	mg/L	0.009
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	\$ICP	Nickel	0.00289	mg/L	0.003
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	\$ICP	Selenium	0.0294	mg/L	0.009
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	\$ICP	Silver	0.00	mg/L	0.003
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	\$ICP	Strontium	0.336	mg/L	0.009
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	\$ICP	Thallium	0.0267	mg/L	0.012
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	\$ICP	Tin	0.00	mg/L	0.006
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	\$ICP	Zinc	0.0132	mg/L	0.006
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	PB_FU	Lead by Furnace	0.98	ug/L	0.5
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	AS_FU	Arsenic by Furnace	2.25	ug/L	1.0
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	CU_FU	Copper by Furnace	3.6	ug/L	1
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	NH3	Ammonia as N	0	mg/L	0.5
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	NO3NO2	Nitrate + Nitrite	2.10	mg/L	0.5
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	TKN	Total Kjeldahl Nitrogen	0.8212	mg/L	0.5
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	NO2	Nitrite as N	0.0213	mg/l	0.005
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	NO3	Nitrate as N (calculated)	2.0787	mg/l	
AC05870	LM14	Little Miami Watershed	14	8/23/2012	09:30	CHLOROPHYLL	Chlorophyll	10.7	mg/m3	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	MF_CF	Fecal Coliform, Membrane Filter	107	CFU/100mL	
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	E-COLI	E.coli (Colilert)	130	MPN	
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	TDS	Total Dissolved Solids	480	mg/L	
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	SO4	Sulfate	50.5	mg/L	12.5
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	CL	Chloride	103	mg/L	1.00
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	TSS	Tot. Suspended Solids	38	mg/L	2
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	SSC	Suspended Sediment Concentration	27.1	mg/L	5.0
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	HARD	Hardness as CaCO3	290	mg/l	
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	COD	COD	19	mg/L	
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	847	uS/cm	
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	TEMP_FLD	Temperature (Field) Celsius	23.23	Deg C	
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	PH_FLD	pH (Field)	7.56	S.U.	
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	DO_FLD	Dissolved Oxygen (field) mg/L	8.22	mg/l	
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	877	uS/cm	
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	\$ICP	Aluminum	0.645	mg/L	0.348
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	\$ICP	Antimony	0.00	mg/L	0.006
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	\$ICP	Arsenic	0.00920	mg/L	0.012
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	\$ICP	Barium	0.0779	mg/L	0.003
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	\$ICP	Calcium	85.3	mg/L	0.066
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	\$ICP	Chromium	0.00	mg/L	0.006
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	\$ICP	Copper	0.00494	mg/L	0.006
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	\$ICP	Iron	1.07	mg/L	0.018
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	\$ICP	Lead	0.00311	mg/L	0.006
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	\$ICP	Magnesium	26.7	mg/L	0.021
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	\$ICP	Manganese	0.143	mg/L	0.009
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	\$ICP	Nickel	0.00309	mg/L	0.003
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	\$ICP	Selenium	0.0204	mg/L	0.009
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	\$ICP	Silver	0.00	mg/L	0.003
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	\$ICP	Strontium	0.337	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	\$ICP	Thallium	0.0141	mg/L	0.012
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	\$ICP	Tin	0.00	mg/L	0.006
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	\$ICP	Zinc	0.00964	mg/L	0.006
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	PB_FU	Lead by Furnace	1.05	ug/L	1.0
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	AS_FU	Arsenic by Furnace	2.12	ug/L	1.0
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	CU_FU	Copper by Furnace	3.3	ug/L	1
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	NH3	Ammonia as N	0	mg/L	0.5
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	NO3NO2	Nitrate + Nitrite	1.95	mg/L	0.5
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	TKN	Total Kjeldahl Nitrogen	0.7521	mg/L	0.5
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	NO2	Nitrite as N	0.0208	mg/l	0.005
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	NO3	Nitrate as N (calculated)	1.9292	mg/l	
AC05871	LM15	Little Miami Watershed	15	8/23/2012	09:50	CHLOROPHYLL	Chlorophyll	9.08	mg/m3	1.00
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	MF_CF	Fecal Coliform, Membrane Filter	121	CFU/100mL	
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	E-COLI	E.coli (Colilert)	105	MPN	
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	TDS	Total Dissolved Solids	480	mg/L	
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	SO4	Sulfate	51.2	mg/L	12.5
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	CL	Chloride	102	mg/L	1.00
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	TSS	Tot. Suspended Solids	32	mg/L	2
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	SSC	Suspended Sediment Concentration	29.0	mg/L	5.0
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	HARD	Hardness as CaCO3	292	mg/l	
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	COD	COD	15	mg/L	
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	843	uS/cm	
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	TEMP_FLD	Temperature (Field) Celsius	23.04	Deg C	
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	PH_FLD	pH (Field)	7.52	S.U.	
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	DO_FLD	Dissolved Oxygen (field) mg/L	6.80	mg/l	
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	876	uS/cm	
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	\$ICP	Aluminum	0.577	mg/L	0.348
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	\$ICP	Antimony	0.00	mg/L	0.006
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	\$ICP	Arsenic	0.00	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	\$ICP	Barium	0.0789	mg/L	0.003
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	\$ICP	Calcium	83.2	mg/L	0.066
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	\$ICP	Chromium	0.00	mg/L	0.006
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	\$ICP	Copper	0.00485	mg/L	0.006
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	\$ICP	Iron	0.976	mg/L	0.018
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	\$ICP	Lead	0.00400	mg/L	0.006
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	\$ICP	Magnesium	26.1	mg/L	0.021
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	\$ICP	Manganese	0.160	mg/L	0.009
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	\$ICP	Nickel	0.00327	mg/L	0.003
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	\$ICP	Selenium	0.0269	mg/L	0.009
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	\$ICP	Silver	0.00	mg/L	0.003
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	\$ICP	Strontium	0.338	mg/L	0.009
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	\$ICP	Thallium	0.0124	mg/L	0.012
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	\$ICP	Tin	0.00	mg/L	0.006
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	\$ICP	Zinc	0.00872	mg/L	0.006
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	PB_FU	Lead by Furnace	1.05	ug/L	1.0
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	AS_FU	Arsenic by Furnace	2.15	ug/L	1.0
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	CU_FU	Copper by Furnace	3.4	ug/L	1
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	NH3	Ammonia as N	0	mg/L	0.5
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	NO3NO2	Nitrate + Nitrite	2.08	mg/L	0.5
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	TKN	Total Kjeldahl Nitrogen	0.7066	mg/L	0.5
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	NO2	Nitrite as N	0.0220	mg/l	0.005
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	NO3	Nitrate as N (calculated)	2.0580	mg/l	
AC05872	LM16	Little Miami Watershed	16 (3261-02)	8/23/2012	10:10	CHLOROPHYLL	Chlorophyll	16.0	mg/m3	1.00
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	MF_CF	Fecal Coliform, Membrane Filter	71	CFU/100mL	
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	E-COLI	E.coli (Colilert)	79	MPN	
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	TDS	Total Dissolved Solids	470	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	SO4	Sulfate	48.0	mg/L	12.5
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	CL	Chloride	101	mg/L	1.00
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	TSS	Tot. Suspended Solids	30	mg/L	2
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	SSC	Suspended Sediment Concentration	28.4	mg/L	5.0
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	HARD	Hardness as CaCO3	276	mg/l	
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	COD	COD	17	mg/L	
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	846	uS/cm	
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	TEMP_FLD	Temperature (Field) Celsius	24.64	Deg C	
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	PH_FLD	pH (Field)	7.64	S.U.	
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	851	uS/cm	
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	\$ICP	Aluminum	0.552	mg/L	0.348
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	\$ICP	Antimony	0.00	mg/L	0.006
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	\$ICP	Arsenic	0.00517	mg/L	0.012
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	\$ICP	Barium	0.0748	mg/L	0.003
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	\$ICP	Calcium	84.5	mg/L	0.066
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	\$ICP	Chromium	0.00	mg/L	0.006
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	\$ICP	Copper	0.00532	mg/L	0.006
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	\$ICP	Iron	0.930	mg/L	0.018
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	\$ICP	Lead	0.00210	mg/L	0.006
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	\$ICP	Magnesium	26.2	mg/L	0.021
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	\$ICP	Manganese	0.117	mg/L	0.009
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	\$ICP	Nickel	0.00287	mg/L	0.003
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	\$ICP	Selenium	0.0247	mg/L	0.009
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	\$ICP	Silver	0.00	mg/L	0.003
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	\$ICP	Strontium	0.330	mg/L	0.009
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	\$ICP	Thallium	0.00911	mg/L	0.012
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	\$ICP	Tin	0.00	mg/L	0.006
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	\$ICP	Zinc	0.00932	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	PB_FU	Lead by Furnace	1.01	ug/L	1.0
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	AS_FU	Arsenic by Furnace	2.27	ug/L	1.0
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	CU_FU	Copper by Furnace	3.8	ug/L	1
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	NH3	Ammonia as N	0	mg/L	0.5
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	NO3NO2	Nitrate + Nitrite	2.95	mg/L	0.5
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	TKN	Total Kjeldahl Nitrogen	0.8708	mg/L	0.5
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	NO2	Nitrite as N	0.0216	mg/l	0.005
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	NO3	Nitrate as N (calculated)	2.9284	mg/l	
AC05873	LM17	Little Miami Watershed	17 (3261-01)	8/23/2012	10:50	CHLOROPHYLL	Chlorophyll	30.4	mg/m3	1.00
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	MF_CF	Fecal Coliform, Membrane Filter	21	CFU/100mL	
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	E-COLI	E.coli (Colilert)	21	MPN	
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	TDS	Total Dissolved Solids	210	mg/L	
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	SO4	Sulfate	15.9	mg/L	5.0
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	CL	Chloride	14.2	mg/L	1.00
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	TSS	Tot. Suspended Solids	4	mg/L	2
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	HARD	Hardness as CaCO3	128	mg/l	
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	COD	COD	19	mg/L	
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	248	uS/cm	
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	TEMP_FLD	Temperature (Field) Celsius	22.21	Deg C	
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	PH_FLD	pH (Field)	6.88	S.U.	
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	DO_FLD	Dissolved Oxygen (field) mg/L	7.51	mg/l	
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	262	uS/cm	
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	\$ICP	Aluminum	0.00	mg/L	0.348
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	\$ICP	Antimony	0.00	mg/L	0.006
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	\$ICP	Arsenic	0.00468	mg/L	0.012
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	\$ICP	Barium	0.0281	mg/L	0.003
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	\$ICP	Calcium	34.3	mg/L	0.066

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	\$ICP	Chromium	0.00	mg/L	0.006
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	\$ICP	Copper	0.00	mg/L	0.006
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	\$ICP	Iron	0.190	mg/L	0.018
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	\$ICP	Lead	0.00245	mg/L	0.006
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	\$ICP	Magnesium	8.41	mg/L	0.021
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	\$ICP	Manganese	0.0994	mg/L	0.009
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	\$ICP	Nickel	0.00	mg/L	0.003
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	\$ICP	Selenium	0.00999	mg/L	0.009
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	\$ICP	Silver	0.00	mg/L	0.003
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	\$ICP	Strontium	0.0922	mg/L	0.009
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	\$ICP	Thallium	0.00945	mg/L	0.012
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	\$ICP	Tin	0.00	mg/L	0.006
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	\$ICP	Zinc	0.00640	mg/L	0.006
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	PB_FU	Lead by Furnace	0.08	ug/L	1.0
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	AS_FU	Arsenic by Furnace	1.99	ug/L	1.0
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	CU_FU	Copper by Furnace	1.2	ug/L	1
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	NH3	Ammonia as N	0	mg/L	0.5
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	TKN	Total Kjeldahl Nitrogen	0.6861	mg/L	0.5
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	NO2	Nitrite as N	0.0132	mg/l	0.005
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	NO3	Nitrate as N (calculated)	AW	mg/l	
AC05874	LM25	Little Miami Watershed	25	8/23/2012	11:45	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	MF_CF	Fecal Coliform, Membrane Filter	210	CFU/100mL	
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	E-COLI	E.coli (Colilert)	308	MPN	
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	TDS	Total Dissolved Solids	160	mg/L	
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	SO4	Sulfate	17.1	mg/L	5.0
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	CL	Chloride	14.7	mg/L	1.00
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	TSS	Tot. Suspended Solids	10	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	HARD	Hardness as CaCO3	130	mg/l	
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	COD	COD	20	mg/L	
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	263	uS/cm	
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	TEMP_FLD	Temperature (Field) Celsius	22.17	Deg C	
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	PH_FLD	pH (Field)	7.32	S.U.	
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	DO_FLD	Dissolved Oxygen (field) mg/L	7.75	mg/l	
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	278	uS/cm	
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	\$ICP	Antimony	0.00	mg/L	0.006
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	\$ICP	Barium	0.0283	mg/L	0.003
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	\$ICP	Calcium	37.1	mg/L	0.066
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	\$ICP	Chromium	0.00	mg/L	0.006
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	\$ICP	Copper	0.00316	mg/L	0.006
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	\$ICP	Iron	0.176	mg/L	0.018
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	\$ICP	Lead	0.00216	mg/L	0.006
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	\$ICP	Magnesium	8.84	mg/L	0.021
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	\$ICP	Manganese	0.0581	mg/L	0.009
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	\$ICP	Nickel	0.00	mg/L	0.003
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	\$ICP	Selenium	0.0128	mg/L	0.009
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	\$ICP	Silver	0.00	mg/L	0.003
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	\$ICP	Strontium	0.104	mg/L	0.009
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	\$ICP	Thallium	0.00641	mg/L	0.012
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	\$ICP	Tin	0.00	mg/L	0.006
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	\$ICP	Zinc	0.0117	mg/L	0.006
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	PB_FU	Lead by Furnace	0.33	ug/L	1.0
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	AS_FU	Arsenic by Furnace	1.69	ug/L	1.0
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	CD_FU	Cadmium by Furnace	AA	ug/L	1



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	CU_FU	Copper by Furnace	1.9	ug/L	1
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	NH3	Ammonia as N	0	mg/L	0.5
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	NO3NO2	Nitrate + Nitrite	1.99	mg/L	0.5
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	TKN	Total Kjeldahl Nitrogen	0.7126	mg/L	0.5
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	NO2	Nitrite as N	0.0075	mg/l	0.005
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	NO3	Nitrate as N (calculated)	1.9825	mg/l	
AC05875	LM26	Little Miami Watershed	26	8/23/2012	12:00	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	MF_CF	Fecal Coliform, Membrane Filter	370	CFU/100mL	
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	E-COLI	E.coli (Colilert)	80	MPN	
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	TDS	Total Dissolved Solids	100	mg/L	
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	SO4	Sulfate	20.3	mg/L	12.5
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	CL	Chloride	15.9	mg/L	1.00
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	TSS	Tot. Suspended Solids	6	mg/L	2
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	SSC	Suspended Sediment Concentration	5.6	mg/L	5.0
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	HARD	Hardness as CaCO3	160	mg/l	
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	COD	COD	6	mg/L	
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	263	uS/cm	
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	TEMP_FLD	Temperature (Field) Celsius	21.49	Deg C	
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	PH_FLD	pH (Field)	7.33	S.U.	
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	DO_FLD	Dissolved Oxygen (field) mg/L	7.49	mg/l	
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	282	uS/cm	
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	\$ICP	Aluminum	0.144	mg/L	0.348
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	\$ICP	Antimony	0.00238	mg/L	0.006
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	\$ICP	Barium	0.0298	mg/L	0.003
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	\$ICP	Calcium	40.0	mg/L	0.066
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	\$ICP	Chromium	0.00	mg/L	0.006
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	\$ICP	Copper	0.00500	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	\$ICP	Iron	0.255	mg/L	0.018
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	\$ICP	Lead	0.00	mg/L	0.006
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	\$ICP	Magnesium	9.51	mg/L	0.021
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	\$ICP	Manganese	0.0540	mg/L	0.009
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	\$ICP	Nickel	0.00169	mg/L	0.003
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	\$ICP	Selenium	0.0161	mg/L	0.009
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	\$ICP	Silver	0.00	mg/L	0.003
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	\$ICP	Strontium	0.112	mg/L	0.009
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	\$ICP	Thallium	0.00943	mg/L	0.012
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	\$ICP	Tin	0.00	mg/L	0.006
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	\$ICP	Zinc	0.0114	mg/L	0.006
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	PB_FU	Lead by Furnace	0.31	ug/L	1.0
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	AS_FU	Arsenic by Furnace	1.61	ug/L	1.0
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	CU_FU	Copper by Furnace	2.2	ug/L	1
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	NH3	Ammonia as N	0	mg/L	0.5
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	NO3NO2	Nitrate + Nitrite	0.639	mg/L	0.5
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	TKN	Total Kjeldahl Nitrogen	0.4984	mg/L	0.5
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	NO2	Nitrite as N	0.0046	mg/l	0.005
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	NO3	Nitrate as N (calculated)	0.6344	mg/l	
AC05963	LM27	Little Miami Watershed	27	8/24/2012	09:30	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	MF_CF	Fecal Coliform, Membrane Filter	220	CFU/100mL	
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	E-COLI	E.coli (Colilert)	105	MPN	
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	TDS	Total Dissolved Solids	80	mg/L	
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	SO4	Sulfate	18.7	mg/L	5.0
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	CL	Chloride	15.4	mg/L	1.00
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	TSS	Tot. Suspended Solids	8	mg/L	2
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	SSC	Suspended Sediment Concentration	6.5	mg/L	5.0
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	HARD	Hardness as CaCO3	172	mg/l	
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	COD	COD	4	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	285	uS/cm	
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	TEMP_FLD	Temperature (Field) Celsius	21.88	Deg C	
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	PH_FLD	pH (Field)	7.12	S.U.	
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	DO_FLD	Dissolved Oxygen (field) mg/L	6.90	mg/l	
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	303	uS/cm	
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	\$ICP	Aluminum	0.138	mg/L	0.348
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	\$ICP	Antimony	0.00	mg/L	0.006
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	\$ICP	Arsenic	0.00	mg/L	0.012
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	\$ICP	Barium	0.0279	mg/L	0.003
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	\$ICP	Calcium	39.3	mg/L	0.066
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	\$ICP	Chromium	0.00	mg/L	0.006
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	\$ICP	Copper	0.00275	mg/L	0.006
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	\$ICP	Iron	0.257	mg/L	0.018
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	\$ICP	Lead	0.00	mg/L	0.006
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	\$ICP	Magnesium	9.17	mg/L	0.021
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	\$ICP	Manganese	0.0542	mg/L	0.009
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	\$ICP	Nickel	0.00116	mg/L	0.003
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	\$ICP	Selenium	0.0156	mg/L	0.009
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	\$ICP	Silver	0.00	mg/L	0.003
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	\$ICP	Strontium	0.111	mg/L	0.009
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	\$ICP	Thallium	0.00693	mg/L	0.012
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	\$ICP	Tin	0.00	mg/L	0.006
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	\$ICP	Zinc	0.00258	mg/L	0.006
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	PB_FU	Lead by Furnace	0.23	ug/L	1.0
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	AS_FU	Arsenic by Furnace	1.74	ug/L	1.0
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	CU_FU	Copper by Furnace	1.9	ug/L	1
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	NH3	Ammonia as N	0	mg/L	0.5
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	TKN	Total Kjeldahl Nitrogen	0.5499	mg/L	0.5
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	NO2	Nitrite as N	.0067	mg/l	0.005
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	NO3	Nitrate as N (calculated)	AW	mg/l	
AC05964	LM28	Little Miami Watershed	28	8/24/2012	09:50	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	MF_CF	Fecal Coliform, Membrane Filter	86	CFU/100mL	
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	E-COLI	E.coli (Colilert)	93	MPN	
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	TDS	Total Dissolved Solids	170	mg/L	
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	SO4	Sulfate	27.0	mg/L	12.5
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	CL	Chloride	28.0	mg/L	1.00
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	TSS	Tot. Suspended Solids	16	mg/L	2
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	SSC	Suspended Sediment Concentration	9.9	mg/L	5.0
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	HARD	Hardness as CaCO3	168	mg/l	
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	COD	COD	6	mg/L	
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	378	uS/cm	
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	TEMP_FLD	Temperature (Field) Celsius	22.34	Deg C	
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	PH_FLD	pH (Field)	7.05	S.U.	
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	DO_FLD	Dissolved Oxygen (field) mg/L	6.32	mg/l	
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	CONDUCTIVITY	Specific Conductivity (uS/cm)	399	uS/cm	
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	\$ICP	Aluminum	0.224	mg/L	0.348
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	\$ICP	Antimony	0.00	mg/L	0.006
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	\$ICP	Arsenic	0.00	mg/L	0.012
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	\$ICP	Barium	0.0291	mg/L	0.003
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	\$ICP	Beryllium	0.00	mg/L	0.009
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	\$ICP	Cadmium	0.00	mg/L	0.012
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	\$ICP	Calcium	47.9	mg/L	0.066
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	\$ICP	Chromium	0.00	mg/L	0.006
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	\$ICP	Cobalt	0.00	mg/L	0.006
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	\$ICP	Copper	0.00429	mg/L	0.006
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	\$ICP	Iron	0.393	mg/L	0.018
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	\$ICP	Lead	0.00	mg/L	0.006
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	\$ICP	Magnesium	10.4	mg/L	0.021

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	\$ICP	Manganese	0.0655	mg/L	0.009
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	\$ICP	Nickel	0.00194	mg/L	0.003
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	\$ICP	Selenium	0.0221	mg/L	0.009
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	\$ICP	Silver	0.00	mg/L	0.003
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	\$ICP	Strontium	0.144	mg/L	0.009
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	\$ICP	Thallium	0.00670	mg/L	0.012
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	\$ICP	Tin	0.00	mg/L	0.006
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	\$ICP	Vanadium	0.00	mg/L	0.018
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	\$ICP	Zinc	0.0126	mg/L	0.006
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	PB_FU	Lead by Furnace	0.54	ug/L	1.0
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	AS_FU	Arsenic by Furnace	1.77	ug/L	1.0
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	CU_FU	Copper by Furnace	3.4	ug/L	1
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	NH3	Ammonia as N	0	mg/L	0.5
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	NO3NO2	Nitrate + Nitrite	4.37	mg/L	0.5
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	TKN	Total Kjeldahl Nitrogen	0.6614	mg/L	0.5
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	TKP	Total Kjeldahl Phosphorus	0.6210	mg/L	0.5
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	NO2	Nitrite as N	.0134	mg/l	0.005
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	NO3	Nitrate as N (calculated)	4.3566	mg/l	
AC05965	LM29	Little Miami Watershed	29	8/24/2012	10:05	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	MF_CF	Fecal Coliform, Membrane Filter	14	CFU/100mL	
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	E-COLI	E.coli (Colilert)	29	MPN	
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	TDS	Total Dissolved Solids	130	mg/L	
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	SO4	Sulfate	26.0	mg/L	12.5
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	CL	Chloride	36.8	mg/L	1.00
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	TSS	Tot. Suspended Solids	16	mg/L	2
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	SSC	Suspended Sediment Concentration	8.5	mg/L	5.0
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	HARD	Hardness as CaCO3	182	mg/l	
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	COD	COD	7	mg/L	
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	370	uS/cm	
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	TEMP_FLD	Temperature (Field) Celsius	22.65	Deg C	
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	PH_FLD	pH (Field)	7.38	S.U.	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	DO_FLD	Dissolved Oxygen (field) mg/L	7.31	mg/l	
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	387	uS/cm	
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	\$ICP	Aluminum	0.184	mg/L	0.348
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	\$ICP	Antimony	0.00	mg/L	0.006
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	\$ICP	Arsenic	0.00	mg/L	0.012
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	\$ICP	Barium	0.0297	mg/L	0.003
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	\$ICP	Calcium	49.2	mg/L	0.066
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	\$ICP	Chromium	0.00	mg/L	0.006
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	\$ICP	Copper	0.00500	mg/L	0.006
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	\$ICP	Iron	0.304	mg/L	0.018
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	\$ICP	Lead	0.00	mg/L	0.006
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	\$ICP	Magnesium	10.5	mg/L	0.021
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	\$ICP	Manganese	0.0578	mg/L	0.009
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	\$ICP	Nickel	0.00187	mg/L	0.003
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	\$ICP	Selenium	0.0142	mg/L	0.009
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	\$ICP	Silver	0.00	mg/L	0.003
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	\$ICP	Strontium	0.144	mg/L	0.009
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	\$ICP	Thallium	0.00971	mg/L	0.012
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	\$ICP	Tin	0.00	mg/L	0.006
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	\$ICP	Zinc	0.0159	mg/L	0.006
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	PB_FU	Lead by Furnace	0.43	ug/L	1.0
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	AS_FU	Arsenic by Furnace	1.83	ug/L	1.0
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	CU_FU	Copper by Furnace	3.6	ug/L	1
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	NH3	Ammonia as N	0	mg/L	0.5
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	NO3NO2	Nitrate + Nitrite	5.90	mg/L	0.5
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	TKN	Total Kjeldahl Nitrogen	0.3439	mg/L	0.5
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	NO2	Nitrite as N	0.0150	mg/l	0.005

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	NO3	Nitrate as N (calculated)	5.8850	mg/l	
AC05966	LM30	Little Miami Watershed	30	8/24/2012	10:20	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	MF_CF	Fecal Coliform, Membrane Filter	179	CFU/100mL	
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	E-COLI	E.coli (Colilert)	104	MPN	
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	TDS	Total Dissolved Solids	220	mg/L	
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	SO4	Sulfate	34.5	mg/L	12.5
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	CL	Chloride	36.5	mg/L	1.00
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	TSS	Tot. Suspended Solids	24	mg/L	2
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	SSC	Suspended Sediment Concentration	17.7	mg/L	5.0
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	HARD	Hardness as CaCO3	184	mg/l	
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	COD	COD	3	mg/L	
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	457	uS/cm	
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	TEMP_FLD	Temperature (Field) Celsius	22.60	Deg C	
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	PH_FLD	pH (Field)	7.5	S.U.	
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	DO_FLD	Dissolved Oxygen (field) mg/L	7.50	mg/l	
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	479	uS/cm	
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	\$ICP	Aluminum	0.397	mg/L	0.348
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	\$ICP	Antimony	0.00	mg/L	0.006
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	\$ICP	Arsenic	0.00	mg/L	0.012
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	\$ICP	Barium	0.0362	mg/L	0.003
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	\$ICP	Beryllium	0.00	mg/L	0.009
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	\$ICP	Cadmium	0.00	mg/L	0.012
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	\$ICP	Calcium	58.3	mg/L	0.066
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	\$ICP	Chromium	0.00	mg/L	0.006
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	\$ICP	Cobalt	0.00	mg/L	0.006
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	\$ICP	Copper	0.00477	mg/L	0.006
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	\$ICP	Iron	0.683	mg/L	0.018
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	\$ICP	Lead	0.00278	mg/L	0.006
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	\$ICP	Magnesium	12.2	mg/L	0.021
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	\$ICP	Manganese	0.0989	mg/L	0.009
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	\$ICP	Nickel	0.00321	mg/L	0.003
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	\$ICP	Selenium	0.0140	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	\$ICP	Silver	0.00	mg/L	0.003
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	\$ICP	Strontium	0.168	mg/L	0.009
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	\$ICP	Thallium	0.00783	mg/L	0.012
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	\$ICP	Tin	0.00	mg/L	0.006
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	\$ICP	Vanadium	0.00	mg/L	0.018
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	\$ICP	Zinc	0.0102	mg/L	0.006
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	PB_FU	Lead by Furnace	0.56	ug/L	1.0
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	AS_FU	Arsenic by Furnace	2.09	ug/L	1.0
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	CU_FU	Copper by Furnace	3.3	ug/L	1
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	NH3	Ammonia as N	0	mg/L	0.5
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	NO3NO2	Nitrate + Nitrite	4.21	mg/L	0.5
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	TKN	Total Kjeldahl Nitrogen	0.6106	mg/L	0.5
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	TKP	Total Kjeldahl Phosphorus	0.5328	mg/L	0.5
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	NO2	Nitrite as N	0.0203	mg/l	0.005
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	NO3	Nitrate as N (calculated)	4.1897	mg/l	
AC05967	LM31	Little Miami Watershed	31	8/24/2012	10:35	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	MF_CF	Fecal Coliform, Membrane Filter	107	CFU/100mL	
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	E-COLI	E.coli (Colilert)	126	MPN	
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	TDS	Total Dissolved Solids	230	mg/L	
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	SO4	Sulfate	38.5	mg/L	12.5
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	CL	Chloride	43.2	mg/L	1.00
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	TSS	Tot. Suspended Solids	48	mg/L	2
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	SSC	Suspended Sediment Concentration	31.6	mg/L	5.0
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	HARD	Hardness as CaCO3	202	mg/l	
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	COD	COD	2	mg/L	
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	492	uS/cm	
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	TEMP_FLD	Temperature (Field) Celsius	22.05	Deg C	
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	PH_FLD	pH (Field)	7.18	S.U.	
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	DO_FLD	Dissolved Oxygen (field) mg/L	7.24	mg/l	
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	521	uS/cm	
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	\$ICP	Aluminum	0.706	mg/L	0.348



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	\$ICP	Antimony	0.00	mg/L	0.006
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	\$ICP	Arsenic	0.00	mg/L	0.012
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	\$ICP	Barium	0.0408	mg/L	0.003
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	\$ICP	Calcium	65.3	mg/L	0.066
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	\$ICP	Chromium	0.00	mg/L	0.006
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	\$ICP	Copper	0.00638	mg/L	0.006
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	\$ICP	Iron	1.24	mg/L	0.018
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	\$ICP	Lead	0.00316	mg/L	0.006
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	\$ICP	Magnesium	13.8	mg/L	0.021
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	\$ICP	Manganese	0.141	mg/L	0.009
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	\$ICP	Nickel	0.00323	mg/L	0.003
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	\$ICP	Selenium	0.00926	mg/L	0.009
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	\$ICP	Silver	0.00	mg/L	0.003
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	\$ICP	Strontium	0.199	mg/L	0.009
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	\$ICP	Thallium	0.0104	mg/L	0.012
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	\$ICP	Tin	0.00	mg/L	0.006
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	\$ICP	Zinc	0.0257	mg/L	0.006
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	PB_FU	Lead by Furnace	0.89	ug/L	1.0
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	AS_FU	Arsenic by Furnace	1.96	ug/L	1.0
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	CU_FU	Copper by Furnace	3.6	ug/L	1
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	NH3	Ammonia as N	0	mg/L	0.5
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	NO3NO2	Nitrate + Nitrite	4.63	mg/L	0.5
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	TKN	Total Kjeldahl Nitrogen	0.7238	mg/L	0.5
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	TKP	Total Kjeldahl Phosphorus	0.6436	mg/L	0.5
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	NO2	Nitrite as N	0.0197	mg/l	0.005
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	NO3	Nitrate as N (calculated)	4.6103	mg/l	
AC05968	LM32	Little Miami Watershed	32	8/24/2012	10:50	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC05995	LM01	Little Miami Watershed	1	8/27/2012	09:00	MF_CF	Fecal Coliform, Membrane Filter	143	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05995	LM01	Little Miami Watershed	1	8/27/2012	09:00	E-COLI	E.coli (Colilert)	108	MPN	
AC05995	LM01	Little Miami Watershed	1	8/27/2012	09:00	TDS	Total Dissolved Solids	640	mg/L	
AC05995	LM01	Little Miami Watershed	1	8/27/2012	09:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05995	LM01	Little Miami Watershed	1	8/27/2012	09:00	SO4	Sulfate	65.5	mg/L	25.0
AC05995	LM01	Little Miami Watershed	1	8/27/2012	09:00	CL	Chloride	169	mg/L	5.0
AC05995	LM01	Little Miami Watershed	1	8/27/2012	09:00	TSS	Tot. Suspended Solids	12	mg/L	2
AC05995	LM01	Little Miami Watershed	1	8/27/2012	09:00	SSC	Suspended Sediment Concentration	66.4	mg/L	5.0
AC05995	LM01	Little Miami Watershed	1	8/27/2012	09:00	HARD	Hardness as CaCO3	330	mg/l	
AC05995	LM01	Little Miami Watershed	1	8/27/2012	09:00	COD	COD	17	mg/L	
AC05995	LM01	Little Miami Watershed	1	8/27/2012	09:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1044	uS/cm	
AC05995	LM01	Little Miami Watershed	1	8/27/2012	09:00	TEMP_FLD	Temperature (Field) Celsius	25.24	Deg C	
AC05995	LM01	Little Miami Watershed	1	8/27/2012	09:00	PH_FLD	pH (Field)	7.98	S.U.	
AC05995	LM01	Little Miami Watershed	1	8/27/2012	09:00	DO_FLD	Dissolved Oxygen (field) mg/L	7.20	mg/l	
AC05995	LM01	Little Miami Watershed	1	8/27/2012	09:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	1039	uS/cm	
AC05995	LM01	Little Miami Watershed	1	8/27/2012	09:00	NH3	Ammonia as N	0	mg/L	0.5
AC05995	LM01	Little Miami Watershed	1	8/27/2012	09:00	NO3NO2	Nitrate + Nitrite	2.97	mg/L	0.5
AC05995	LM01	Little Miami Watershed	1	8/27/2012	09:00	TKN	Total Kjeldahl Nitrogen	0.6292	mg/L	0.5
AC05995	LM01	Little Miami Watershed	1	8/27/2012	09:00	TKP	Total Kjeldahl Phosphorus	0.5340	mg/L	0.5
AC05995	LM01	Little Miami Watershed	1	8/27/2012	09:00	NO2	Nitrite as N	0.0331	mg/l	0.005
AC05995	LM01	Little Miami Watershed	1	8/27/2012	09:00	NO3	Nitrate as N (calculated)	2.9369	mg/l	
AC05995	LM01	Little Miami Watershed	1	8/27/2012	09:00	CHLOROPHYLL	Chlorophyll	3.34	mg/m3	1.00
AC05996	LM02	Little Miami Watershed	2 (3261-09)	8/27/2012	09:40	MF_CF	Fecal Coliform, Membrane Filter	36	CFU/100mL	
AC05996	LM02	Little Miami Watershed	2 (3261-09)	8/27/2012	09:40	E-COLI	E.coli (Colilert)	59	MPN	
AC05996	LM02	Little Miami Watershed	2 (3261-09)	8/27/2012	09:40	TDS	Total Dissolved Solids	610	mg/L	
AC05996	LM02	Little Miami Watershed	2 (3261-09)	8/27/2012	09:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05996	LM02	Little Miami Watershed	2 (3261-09)	8/27/2012	09:40	SO4	Sulfate	53.8	mg/L	12.5
AC05996	LM02	Little Miami Watershed	2 (3261-09)	8/27/2012	09:40	CL	Chloride	224	mg/L	4.0
AC05996	LM02	Little Miami Watershed	2 (3261-09)	8/27/2012	09:40	TSS	Tot. Suspended Solids	10	mg/L	2
AC05996	LM02	Little Miami Watershed	2 (3261-09)	8/27/2012	09:40	SSC	Suspended Sediment Concentration	18.2	mg/L	5.0
AC05996	LM02	Little Miami Watershed	2 (3261-09)	8/27/2012	09:40	HARD	Hardness as CaCO3	326	mg/l	
AC05996	LM02	Little Miami Watershed	2 (3261-09)	8/27/2012	09:40	COD	COD	31	mg/L	
AC05996	LM02	Little Miami Watershed	2 (3261-09)	8/27/2012	09:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	814	uS/cm	
AC05996	LM02	Little Miami Watershed	2 (3261-09)	8/27/2012	09:40	TEMP_FLD	Temperature (Field) Celsius	25.79	Deg C	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05996	LM02	Little Miami Watershed	2 (3261-09)	8/27/2012	09:40	PH_FLD	pH (Field)	8.09	S.U.	
AC05996	LM02	Little Miami Watershed	2 (3261-09)	8/27/2012	09:40	DO_FLD	Dissolved Oxygen (field) mg/L	8.07	mg/l	
AC05996	LM02	Little Miami Watershed	2 (3261-09)	8/27/2012	09:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	802	uS/cm	
AC05996	LM02	Little Miami Watershed	2 (3261-09)	8/27/2012	09:40	NH3	Ammonia as N	0	mg/L	0.5
AC05996	LM02	Little Miami Watershed	2 (3261-09)	8/27/2012	09:40	NO3NO2	Nitrate + Nitrite	1.74	mg/L	0.5
AC05996	LM02	Little Miami Watershed	2 (3261-09)	8/27/2012	09:40	TKN	Total Kjeldahl Nitrogen	0.6661	mg/L	0.5
AC05996	LM02	Little Miami Watershed	2 (3261-09)	8/27/2012	09:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05996	LM02	Little Miami Watershed	2 (3261-09)	8/27/2012	09:40	NO2	Nitrite as N	.0162	mg/l	0.005
AC05996	LM02	Little Miami Watershed	2 (3261-09)	8/27/2012	09:40	NO3	Nitrate as N (calculated)	1.7238	mg/l	
AC05996	LM02	Little Miami Watershed	2 (3261-09)	8/27/2012	09:40	CHLOROPHYLL	Chlorophyll	7.48	mg/m3	1.00
AC05997	LM03	Little Miami Watershed	3	8/27/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	230	CFU/100mL	
AC05997	LM03	Little Miami Watershed	3	8/27/2012	10:00	E-COLI	E.coli (Colilert)	291	MPN	
AC05997	LM03	Little Miami Watershed	3	8/27/2012	10:00	TDS	Total Dissolved Solids	330	mg/L	
AC05997	LM03	Little Miami Watershed	3	8/27/2012	10:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05997	LM03	Little Miami Watershed	3	8/27/2012	10:00	SO4	Sulfate	52.8	mg/L	12.5
AC05997	LM03	Little Miami Watershed	3	8/27/2012	10:00	CL	Chloride	145	mg/L	4.0
AC05997	LM03	Little Miami Watershed	3	8/27/2012	10:00	TSS	Tot. Suspended Solids	8	mg/L	2
AC05997	LM03	Little Miami Watershed	3	8/27/2012	10:00	SSC	Suspended Sediment Concentration	34.6	mg/L	5.0
AC05997	LM03	Little Miami Watershed	3	8/27/2012	10:00	HARD	Hardness as CaCO3	322	mg/l	
AC05997	LM03	Little Miami Watershed	3	8/27/2012	10:00	COD	COD	27	mg/L	
AC05997	LM03	Little Miami Watershed	3	8/27/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	901	uS/cm	
AC05997	LM03	Little Miami Watershed	3	8/27/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	25.45	Deg C	
AC05997	LM03	Little Miami Watershed	3	8/27/2012	10:00	PH_FLD	pH (Field)	7.83	S.U.	
AC05997	LM03	Little Miami Watershed	3	8/27/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	6.97	mg/l	
AC05997	LM03	Little Miami Watershed	3	8/27/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	894	uS/cm	
AC05997	LM03	Little Miami Watershed	3	8/27/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC05997	LM03	Little Miami Watershed	3	8/27/2012	10:00	NO3NO2	Nitrate + Nitrite	1.91	mg/L	0.5
AC05997	LM03	Little Miami Watershed	3	8/27/2012	10:00	TKN	Total Kjeldahl Nitrogen	0.5924	mg/L	0.5
AC05997	LM03	Little Miami Watershed	3	8/27/2012	10:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC05997	LM03	Little Miami Watershed	3	8/27/2012	10:00	NO2	Nitrite as N	.0189	mg/l	0.005
AC05997	LM03	Little Miami Watershed	3	8/27/2012	10:00	NO3	Nitrate as N (calculated)	1.8911	mg/l	
AC05997	LM03	Little Miami Watershed	3	8/27/2012	10:00	CHLOROPHYLL	Chlorophyll	7.48	mg/m3	1.00
AC05998	LM04	Little Miami Watershed	4	8/27/2012	10:15	MF_CF	Fecal Coliform, Membrane Filter	93	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05998	LM04	Little Miami Watershed	4	8/27/2012	10:15	E-COLI	E.coli (Colilert)	161	MPN	
AC05998	LM04	Little Miami Watershed	4	8/27/2012	10:15	TDS	Total Dissolved Solids	670	mg/L	
AC05998	LM04	Little Miami Watershed	4	8/27/2012	10:15	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC05998	LM04	Little Miami Watershed	4	8/27/2012	10:15	SO4	Sulfate	75.5	mg/L	25.0
AC05998	LM04	Little Miami Watershed	4	8/27/2012	10:15	CL	Chloride	313	mg/L	5.0
AC05998	LM04	Little Miami Watershed	4	8/27/2012	10:15	TSS	Tot. Suspended Solids	18	mg/L	2
AC05998	LM04	Little Miami Watershed	4	8/27/2012	10:15	SSC	Suspended Sediment Concentration	15.7	mg/L	5.0
AC05998	LM04	Little Miami Watershed	4	8/27/2012	10:15	HARD	Hardness as CaCO3	322	mg/l	
AC05998	LM04	Little Miami Watershed	4	8/27/2012	10:15	COD	COD	39	mg/L	
AC05998	LM04	Little Miami Watershed	4	8/27/2012	10:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1240	uS/cm	
AC05998	LM04	Little Miami Watershed	4	8/27/2012	10:15	TEMP_FLD	Temperature (Field) Celsius	23.44	Deg C	
AC05998	LM04	Little Miami Watershed	4	8/27/2012	10:15	PH_FLD	pH (Field)	7.52	S.U.	
AC05998	LM04	Little Miami Watershed	4	8/27/2012	10:15	DO_FLD	Dissolved Oxygen (field) mg/L	7.68	mg/l	
AC05998	LM04	Little Miami Watershed	4	8/27/2012	10:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	1279	uS/cm	
AC05998	LM04	Little Miami Watershed	4	8/27/2012	10:15	NH3	Ammonia as N	0	mg/L	0.5
AC05998	LM04	Little Miami Watershed	4	8/27/2012	10:15	NO3NO2	Nitrate + Nitrite	3.83	mg/L	0.5
AC05998	LM04	Little Miami Watershed	4	8/27/2012	10:15	TKN	Total Kjeldahl Nitrogen	1.292	mg/L	0.5
AC05998	LM04	Little Miami Watershed	4	8/27/2012	10:15	TKP	Total Kjeldahl Phosphorus	1.101	mg/L	0.5
AC05998	LM04	Little Miami Watershed	4	8/27/2012	10:15	NO2	Nitrite as N	.1058	mg/l	0.005
AC05998	LM04	Little Miami Watershed	4	8/27/2012	10:15	NO3	Nitrate as N (calculated)	3.7242	mg/l	
AC05998	LM04	Little Miami Watershed	4	8/27/2012	10:15	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC05999	LM05	Little Miami Watershed	5 (3261-08)	8/27/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	50	CFU/100mL	
AC05999	LM05	Little Miami Watershed	5 (3261-08)	8/27/2012	10:30	E-COLI	E.coli (Colilert)	60	MPN	
AC05999	LM05	Little Miami Watershed	5 (3261-08)	8/27/2012	10:30	TDS	Total Dissolved Solids	620	mg/L	
AC05999	LM05	Little Miami Watershed	5 (3261-08)	8/27/2012	10:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC05999	LM05	Little Miami Watershed	5 (3261-08)	8/27/2012	10:30	SO4	Sulfate	61.5	mg/L	25.0
AC05999	LM05	Little Miami Watershed	5 (3261-08)	8/27/2012	10:30	CL	Chloride	193	mg/L	4.0
AC05999	LM05	Little Miami Watershed	5 (3261-08)	8/27/2012	10:30	TSS	Tot. Suspended Solids	10	mg/L	2
AC05999	LM05	Little Miami Watershed	5 (3261-08)	8/27/2012	10:30	SSC	Suspended Sediment Concentration	25.2	mg/L	5.0
AC05999	LM05	Little Miami Watershed	5 (3261-08)	8/27/2012	10:30	HARD	Hardness as CaCO3	316	mg/l	
AC05999	LM05	Little Miami Watershed	5 (3261-08)	8/27/2012	10:30	COD	COD	28	mg/L	
AC05999	LM05	Little Miami Watershed	5 (3261-08)	8/27/2012	10:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	961	uS/cm	
AC05999	LM05	Little Miami Watershed	5 (3261-08)	8/27/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	25.46	Deg C	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC05999	LM05	Little Miami Watershed	5 (3261-08)	8/27/2012	10:30	PH_FLD	pH (Field)	8.05	S.U.	
AC05999	LM05	Little Miami Watershed	5 (3261-08)	8/27/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	7.34	mg/l	
AC05999	LM05	Little Miami Watershed	5 (3261-08)	8/27/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	953	uS/cm	
AC05999	LM05	Little Miami Watershed	5 (3261-08)	8/27/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC05999	LM05	Little Miami Watershed	5 (3261-08)	8/27/2012	10:30	NO3NO2	Nitrate + Nitrite	2.31	mg/L	0.5
AC05999	LM05	Little Miami Watershed	5 (3261-08)	8/27/2012	10:30	TKN	Total Kjeldahl Nitrogen	0.8038	mg/L	0.5
AC05999	LM05	Little Miami Watershed	5 (3261-08)	8/27/2012	10:30	TKP	Total Kjeldahl Phosphorus	0.5469	mg/L	0.5
AC05999	LM05	Little Miami Watershed	5 (3261-08)	8/27/2012	10:30	NO2	Nitrite as N	.0321	mg/l	0.005
AC05999	LM05	Little Miami Watershed	5 (3261-08)	8/27/2012	10:30	NO3	Nitrate as N (calculated)	2.2779	mg/l	
AC05999	LM05	Little Miami Watershed	5 (3261-08)	8/27/2012	10:30	CHLOROPHYLL	Chlorophyll	8.01	mg/m3	1.00
AC06000	LM06	Little Miami Watershed	6 (3261-07)	8/27/2012	10:40	MF_CF	Fecal Coliform, Membrane Filter	43	CFU/100mL	
AC06000	LM06	Little Miami Watershed	6 (3261-07)	8/27/2012	10:40	E-COLI	E.coli (Colilert)	41	MPN	
AC06000	LM06	Little Miami Watershed	6 (3261-07)	8/27/2012	10:40	TDS	Total Dissolved Solids	640	mg/L	
AC06000	LM06	Little Miami Watershed	6 (3261-07)	8/27/2012	10:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06000	LM06	Little Miami Watershed	6 (3261-07)	8/27/2012	10:40	SO4	Sulfate	62.5	mg/L	25.0
AC06000	LM06	Little Miami Watershed	6 (3261-07)	8/27/2012	10:40	CL	Chloride	166	mg/L	4.0
AC06000	LM06	Little Miami Watershed	6 (3261-07)	8/27/2012	10:40	TSS	Tot. Suspended Solids	22	mg/L	2
AC06000	LM06	Little Miami Watershed	6 (3261-07)	8/27/2012	10:40	SSC	Suspended Sediment Concentration	16.2	mg/L	5.0
AC06000	LM06	Little Miami Watershed	6 (3261-07)	8/27/2012	10:40	HARD	Hardness as CaCO3	318	mg/l	
AC06000	LM06	Little Miami Watershed	6 (3261-07)	8/27/2012	10:40	COD	COD	31	mg/L	
AC06000	LM06	Little Miami Watershed	6 (3261-07)	8/27/2012	10:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	989	uS/cm	
AC06000	LM06	Little Miami Watershed	6 (3261-07)	8/27/2012	10:40	TEMP_FLD	Temperature (Field) Celsius	26.29	Deg C	
AC06000	LM06	Little Miami Watershed	6 (3261-07)	8/27/2012	10:40	PH_FLD	pH (Field)	8.00	S.U.	
AC06000	LM06	Little Miami Watershed	6 (3261-07)	8/27/2012	10:40	DO_FLD	Dissolved Oxygen (field) mg/L	6.24	mg/l	
AC06000	LM06	Little Miami Watershed	6 (3261-07)	8/27/2012	10:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	965	uS/cm	
AC06000	LM06	Little Miami Watershed	6 (3261-07)	8/27/2012	10:40	NH3	Ammonia as N	0	mg/L	0.5
AC06000	LM06	Little Miami Watershed	6 (3261-07)	8/27/2012	10:40	NO3NO2	Nitrate + Nitrite	2.46	mg/L	0.5
AC06000	LM06	Little Miami Watershed	6 (3261-07)	8/27/2012	10:40	TKN	Total Kjeldahl Nitrogen	0.7684	mg/L	0.5
AC06000	LM06	Little Miami Watershed	6 (3261-07)	8/27/2012	10:40	TKP	Total Kjeldahl Phosphorus	0.5577	mg/L	0.5
AC06000	LM06	Little Miami Watershed	6 (3261-07)	8/27/2012	10:40	NO2	Nitrite as N	.0330	mg/l	0.005
AC06000	LM06	Little Miami Watershed	6 (3261-07)	8/27/2012	10:40	NO3	Nitrate as N (calculated)	2.4270	mg/l	
AC06000	LM06	Little Miami Watershed	6 (3261-07)	8/27/2012	10:40	CHLOROPHYLL	Chlorophyll	16.6	mg/m3	1.00
AC06001	LM08	Little Miami Watershed	8 (3261-06)	8/27/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	21	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06001	LM08	Little Miami Watershed	8 (3261-06)	8/27/2012	11:00	E-COLI	E.coli (Colilert)	33	MPN	
AC06001	LM08	Little Miami Watershed	8 (3261-06)	8/27/2012	11:00	TDS	Total Dissolved Solids	610	mg/L	
AC06001	LM08	Little Miami Watershed	8 (3261-06)	8/27/2012	11:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06001	LM08	Little Miami Watershed	8 (3261-06)	8/27/2012	11:00	SO4	Sulfate	65.0	mg/L	25.0
AC06001	LM08	Little Miami Watershed	8 (3261-06)	8/27/2012	11:00	CL	Chloride	203	mg/L	4.0
AC06001	LM08	Little Miami Watershed	8 (3261-06)	8/27/2012	11:00	TSS	Tot. Suspended Solids	10	mg/L	2
AC06001	LM08	Little Miami Watershed	8 (3261-06)	8/27/2012	11:00	SSC	Suspended Sediment Concentration	14.7	mg/L	5.0
AC06001	LM08	Little Miami Watershed	8 (3261-06)	8/27/2012	11:00	HARD	Hardness as CaCO3	310	mg/l	
AC06001	LM08	Little Miami Watershed	8 (3261-06)	8/27/2012	11:00	COD	COD	6	mg/L	
AC06001	LM08	Little Miami Watershed	8 (3261-06)	8/27/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	985	uS/cm	
AC06001	LM08	Little Miami Watershed	8 (3261-06)	8/27/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	25.89	Deg C	
AC06001	LM08	Little Miami Watershed	8 (3261-06)	8/27/2012	11:00	PH_FLD	pH (Field)	7.98	S.U.	
AC06001	LM08	Little Miami Watershed	8 (3261-06)	8/27/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	6.52	mg/l	
AC06001	LM08	Little Miami Watershed	8 (3261-06)	8/27/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	968	uS/cm	
AC06001	LM08	Little Miami Watershed	8 (3261-06)	8/27/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC06001	LM08	Little Miami Watershed	8 (3261-06)	8/27/2012	11:00	NO3NO2	Nitrate + Nitrite	2.23	mg/L	0.5
AC06001	LM08	Little Miami Watershed	8 (3261-06)	8/27/2012	11:00	TKN	Total Kjeldahl Nitrogen	0.7287	mg/L	0.5
AC06001	LM08	Little Miami Watershed	8 (3261-06)	8/27/2012	11:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06001	LM08	Little Miami Watershed	8 (3261-06)	8/27/2012	11:00	NO2	Nitrite as N	.0354	mg/l	0.005
AC06001	LM08	Little Miami Watershed	8 (3261-06)	8/27/2012	11:00	NO3	Nitrate as N (calculated)	2.1946	mg/l	
AC06001	LM08	Little Miami Watershed	8 (3261-06)	8/27/2012	11:00	CHLOROPHYLL	Chlorophyll	10.7	mg/m3	1.00
AC06092	LM07	Little Miami Watershed	7	8/28/2012	09:15	MF_CF	Fecal Coliform, Membrane Filter	210	CFU/100mL	
AC06092	LM07	Little Miami Watershed	7	8/28/2012	09:15	E-COLI	E.coli (Colilert)	167	MPN	
AC06092	LM07	Little Miami Watershed	7	8/28/2012	09:15	TDS	Total Dissolved Solids	520	mg/L	
AC06092	LM07	Little Miami Watershed	7	8/28/2012	09:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06092	LM07	Little Miami Watershed	7	8/28/2012	09:15	SO4	Sulfate	53.0	mg/L	25.0
AC06092	LM07	Little Miami Watershed	7	8/28/2012	09:15	CL	Chloride	207	mg/L	4.0
AC06092	LM07	Little Miami Watershed	7	8/28/2012	09:15	TSS	Tot. Suspended Solids	26	mg/L	2
AC06092	LM07	Little Miami Watershed	7	8/28/2012	09:15	SSC	Suspended Sediment Concentration	22.4	mg/L	5.0
AC06092	LM07	Little Miami Watershed	7	8/28/2012	09:15	HARD	Hardness as CaCO3	292	mg/l	
AC06092	LM07	Little Miami Watershed	7	8/28/2012	09:15	COD	COD	25	mg/L	
AC06092	LM07	Little Miami Watershed	7	8/28/2012	09:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	950	uS/cm	
AC06092	LM07	Little Miami Watershed	7	8/28/2012	09:15	TEMP_FLD	Temperature (Field) Celsius	23.98	Deg C	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06092	LM07	Little Miami Watershed	7	8/28/2012	09:15	PH_FLD	pH (Field)	7.50	S.U.	
AC06092	LM07	Little Miami Watershed	7	8/28/2012	09:15	DO_FLD	Dissolved Oxygen (field) mg/L	4.71	mg/l	
AC06092	LM07	Little Miami Watershed	7	8/28/2012	09:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	968	uS/cm	
AC06092	LM07	Little Miami Watershed	7	8/28/2012	09:15	NH3	Ammonia as N	0	mg/L	0.5
AC06092	LM07	Little Miami Watershed	7	8/28/2012	09:15	NO3NO2	Nitrate + Nitrite	2.11	mg/L	0.5
AC06092	LM07	Little Miami Watershed	7	8/28/2012	09:15	TKN	Total Kjeldahl Nitrogen	0.7471	mg/L	0.5
AC06092	LM07	Little Miami Watershed	7	8/28/2012	09:15	TKP	Total Kjeldahl Phosphorus	0.5014	mg/L	0.5
AC06092	LM07	Little Miami Watershed	7	8/28/2012	09:15	NO2	Nitrite as N	.0407	mg/l	0.005
AC06092	LM07	Little Miami Watershed	7	8/28/2012	09:15	NO3	Nitrate as N (calculated)	2.0693	mg/l	
AC06092	LM07	Little Miami Watershed	7	8/28/2012	09:15	CHLOROPHYLL	Chlorophyll	8.68	mg/m3	1.00
AC06093	LM09	Little Miami Watershed	9	8/28/2012	09:20	MF_CF	Fecal Coliform, Membrane Filter	43	CFU/100mL	
AC06093	LM09	Little Miami Watershed	9	8/28/2012	09:20	E-COLI	E.coli (Colilert)	43	MPN	
AC06093	LM09	Little Miami Watershed	9	8/28/2012	09:20	TDS	Total Dissolved Solids	580	mg/L	
AC06093	LM09	Little Miami Watershed	9	8/28/2012	09:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06093	LM09	Little Miami Watershed	9	8/28/2012	09:20	SO4	Sulfate	57.2	mg/L	12.5
AC06093	LM09	Little Miami Watershed	9	8/28/2012	09:20	CL	Chloride	258	mg/L	5.0
AC06093	LM09	Little Miami Watershed	9	8/28/2012	09:20	TSS	Tot. Suspended Solids	23	mg/L	2
AC06093	LM09	Little Miami Watershed	9	8/28/2012	09:20	SSC	Suspended Sediment Concentration	20.3	mg/L	5.0
AC06093	LM09	Little Miami Watershed	9	8/28/2012	09:20	HARD	Hardness as CaCO3	320	mg/l	
AC06093	LM09	Little Miami Watershed	9	8/28/2012	09:20	COD	COD	5	mg/L	
AC06093	LM09	Little Miami Watershed	9	8/28/2012	09:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1035	uS/cm	
AC06093	LM09	Little Miami Watershed	9	8/28/2012	09:20	TEMP_FLD	Temperature (Field) Celsius	25.31	Deg C	
AC06093	LM09	Little Miami Watershed	9	8/28/2012	09:20	PH_FLD	pH (Field)	8.10	S.U.	
AC06093	LM09	Little Miami Watershed	9	8/28/2012	09:20	DO_FLD	Dissolved Oxygen (field) mg/L	6.50	mg/l	
AC06093	LM09	Little Miami Watershed	9	8/28/2012	09:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	1029	uS/cm	
AC06093	LM09	Little Miami Watershed	9	8/28/2012	09:20	NH3	Ammonia as N	0	mg/L	0.5
AC06093	LM09	Little Miami Watershed	9	8/28/2012	09:20	NO3NO2	Nitrate + Nitrite	2.03	mg/L	0.5
AC06093	LM09	Little Miami Watershed	9	8/28/2012	09:20	TKN	Total Kjeldahl Nitrogen	0.7214	mg/L	0.5
AC06093	LM09	Little Miami Watershed	9	8/28/2012	09:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06093	LM09	Little Miami Watershed	9	8/28/2012	09:20	NO2	Nitrite as N	.0279	mg/l	0.005
AC06093	LM09	Little Miami Watershed	9	8/28/2012	09:20	NO3	Nitrate as N (calculated)	2.0021	mg/l	
AC06093	LM09	Little Miami Watershed	9	8/28/2012	09:20	CHLOROPHYLL	Chlorophyll	10.2	mg/m3	1.00
AC06094	LM11	Little Miami Watershed	11	8/28/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06094	LM11	Little Miami Watershed	11	8/28/2012	10:00	E-COLI	E.coli (Colilert)	2420	MPN	
AC06094	LM11	Little Miami Watershed	11	8/28/2012	10:00	TDS	Total Dissolved Solids	430	mg/L	
AC06094	LM11	Little Miami Watershed	11	8/28/2012	10:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06094	LM11	Little Miami Watershed	11	8/28/2012	10:00	SO4	Sulfate	36.2	mg/L	12.5
AC06094	LM11	Little Miami Watershed	11	8/28/2012	10:00	CL	Chloride	66.9	mg/L	1.00
AC06094	LM11	Little Miami Watershed	11	8/28/2012	10:00	TSS	Tot. Suspended Solids	73	mg/L	2
AC06094	LM11	Little Miami Watershed	11	8/28/2012	10:00	SSC	Suspended Sediment Concentration	80.2	mg/L	5.0
AC06094	LM11	Little Miami Watershed	11	8/28/2012	10:00	HARD	Hardness as CaCO3	190	mg/l	
AC06094	LM11	Little Miami Watershed	11	8/28/2012	10:00	COD	COD	26	mg/L	
AC06094	LM11	Little Miami Watershed	11	8/28/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	536	uS/cm	
AC06094	LM11	Little Miami Watershed	11	8/28/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	24.12	Deg C	
AC06094	LM11	Little Miami Watershed	11	8/28/2012	10:00	PH_FLD	pH (Field)	7.66	S.U.	
AC06094	LM11	Little Miami Watershed	11	8/28/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	5.58	mg/l	
AC06094	LM11	Little Miami Watershed	11	8/28/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	545	uS/cm	
AC06094	LM11	Little Miami Watershed	11	8/28/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC06094	LM11	Little Miami Watershed	11	8/28/2012	10:00	NO3NO2	Nitrate + Nitrite	1.42	mg/L	0.5
AC06094	LM11	Little Miami Watershed	11	8/28/2012	10:00	TKN	Total Kjeldahl Nitrogen	0.8480	mg/L	0.5
AC06094	LM11	Little Miami Watershed	11	8/28/2012	10:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06094	LM11	Little Miami Watershed	11	8/28/2012	10:00	NO2	Nitrite as N	.0222	mg/l	0.005
AC06094	LM11	Little Miami Watershed	11	8/28/2012	10:00	NO3	Nitrate as N (calculated)	1.3978	mg/l	
AC06094	LM11	Little Miami Watershed	11	8/28/2012	10:00	CHLOROPHYLL	Chlorophyll	7.12	mg/m3	1.00
AC06095	LM94	Little Miami Watershed	90	8/28/2012	10:20	MF_CF	Fecal Coliform, Membrane Filter	114	CFU/100mL	
AC06095	LM94	Little Miami Watershed	90	8/28/2012	10:20	E-COLI	E.coli (Colilert)	60	MPN	
AC06095	LM94	Little Miami Watershed	90	8/28/2012	10:20	TDS	Total Dissolved Solids	460	mg/L	
AC06095	LM94	Little Miami Watershed	90	8/28/2012	10:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06095	LM94	Little Miami Watershed	90	8/28/2012	10:20	SO4	Sulfate	39.2	mg/L	12.5
AC06095	LM94	Little Miami Watershed	90	8/28/2012	10:20	CL	Chloride	107	mg/L	1.00
AC06095	LM94	Little Miami Watershed	90	8/28/2012	10:20	TSS	Tot. Suspended Solids	8	mg/L	2
AC06095	LM94	Little Miami Watershed	90	8/28/2012	10:20	SSC	Suspended Sediment Concentration	6.8	mg/L	5.0
AC06095	LM94	Little Miami Watershed	90	8/28/2012	10:20	HARD	Hardness as CaCO3	230	mg/l	
AC06095	LM94	Little Miami Watershed	90	8/28/2012	10:20	COD	COD	9	mg/L	
AC06095	LM94	Little Miami Watershed	90	8/28/2012	10:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	705	uS/cm	
AC06095	LM94	Little Miami Watershed	90	8/28/2012	10:20	TEMP_FLD	Temperature (Field) Celsius	21.37	Deg C	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06095	LM94	Little Miami Watershed	90	8/28/2012	10:20	DO_FLD	Dissolved Oxygen (field) mg/L	6.05	mg/l	
AC06095	LM94	Little Miami Watershed	90	8/28/2012	10:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	755	uS/cm	
AC06095	LM94	Little Miami Watershed	90	8/28/2012	10:20	NH3	Ammonia as N	0	mg/L	0.5
AC06095	LM94	Little Miami Watershed	90	8/28/2012	10:20	NO3NO2	Nitrate + Nitrite	0.631	mg/L	0.5
AC06095	LM94	Little Miami Watershed	90	8/28/2012	10:20	TKN	Total Kjeldahl Nitrogen	0.5750	mg/L	0.5
AC06095	LM94	Little Miami Watershed	90	8/28/2012	10:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06095	LM94	Little Miami Watershed	90	8/28/2012	10:20	NO2	Nitrite as N	.0372	mg/l	0.005
AC06095	LM94	Little Miami Watershed	90	8/28/2012	10:20	NO3	Nitrate as N (calculated)	0.5938	mg/l	
AC06095	LM94	Little Miami Watershed	90	8/28/2012	10:20	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC06096	LM93	Little Miami Watershed	93	8/28/2012	10:40	MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	
AC06096	LM93	Little Miami Watershed	93	8/28/2012	10:40	E-COLI	E.coli (Colilert)	2420	MPN	
AC06096	LM93	Little Miami Watershed	93	8/28/2012	10:40	TDS	Total Dissolved Solids	280	mg/L	
AC06096	LM93	Little Miami Watershed	93	8/28/2012	10:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06096	LM93	Little Miami Watershed	93	8/28/2012	10:40	SO4	Sulfate	38.0	mg/L	12.5
AC06096	LM93	Little Miami Watershed	93	8/28/2012	10:40	CL	Chloride	27.3	mg/L	1.00
AC06096	LM93	Little Miami Watershed	93	8/28/2012	10:40	TSS	Tot. Suspended Solids	94	mg/L	2
AC06096	LM93	Little Miami Watershed	93	8/28/2012	10:40	SSC	Suspended Sediment Concentration	31.2	mg/L	5.0
AC06096	LM93	Little Miami Watershed	93	8/28/2012	10:40	HARD	Hardness as CaCO3	298	mg/l	
AC06096	LM93	Little Miami Watershed	93	8/28/2012	10:40	COD	COD	5	mg/L	
AC06096	LM93	Little Miami Watershed	93	8/28/2012	10:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	385	uS/cm	
AC06096	LM93	Little Miami Watershed	93	8/28/2012	10:40	TEMP_FLD	Temperature (Field) Celsius	21.13	Deg C	
AC06096	LM93	Little Miami Watershed	93	8/28/2012	10:40	PH_FLD	pH (Field)	7.74	S.U.	
AC06096	LM93	Little Miami Watershed	93	8/28/2012	10:40	DO_FLD	Dissolved Oxygen (field) mg/L	8.52	mg/l	
AC06096	LM93	Little Miami Watershed	93	8/28/2012	10:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	415	uS/cm	
AC06096	LM93	Little Miami Watershed	93	8/28/2012	10:40	NH3	Ammonia as N	0	mg/L	0.5
AC06096	LM93	Little Miami Watershed	93	8/28/2012	10:40	NO3NO2	Nitrate + Nitrite	0.643	mg/L	0.5
AC06096	LM93	Little Miami Watershed	93	8/28/2012	10:40	TKN	Total Kjeldahl Nitrogen	0.4692	mg/L	0.5
AC06096	LM93	Little Miami Watershed	93	8/28/2012	10:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06096	LM93	Little Miami Watershed	93	8/28/2012	10:40	NO2	Nitrite as N	.0039	mg/l	0.005
AC06096	LM93	Little Miami Watershed	93	8/28/2012	10:40	NO3	Nitrate as N (calculated)	0.6391	mg/l	
AC06096	LM93	Little Miami Watershed	93	8/28/2012	10:40	CHLOROPHYLL	Chlorophyll	4.01	mg/m3	1.00
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	E-COLI	E.coli (Colilert)	2420	MPN	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	TDS	Total Dissolved Solids	250	mg/L	
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	BOD	Biochemical Oxygen Demand	6	mg/L	2
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	SO4	Sulfate	53.0	mg/L	12.5
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	CL	Chloride	62.7	mg/L	1.00
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	TSS	Tot. Suspended Solids	13	mg/L	2
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	SSC	Suspended Sediment Concentration	8.9	mg/L	5.0
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	HARD	Hardness as CaCO3	146	mg/l	
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	COD	COD	61	mg/L	
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	486	uS/cm	
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	23.53	Deg C	
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	PH_FLD	pH (Field)	7.52	S.U.	
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	3.20	mg/l	
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	500	uS/cm	
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	\$ICP	Antimony	0.00	mg/L	0.006
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	\$ICP	Arsenic	0.0152	mg/L	0.012
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	\$ICP	Barium	0.0369	mg/L	0.003
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	\$ICP	Calcium	49.4	mg/L	0.066
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	\$ICP	Chromium	0.00	mg/L	0.006
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	\$ICP	Copper	0.0124	mg/L	0.006
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	\$ICP	Iron	0.384	mg/L	0.018
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	\$ICP	Lead	0.00	mg/L	0.006
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	\$ICP	Magnesium	11.0	mg/L	0.021
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	\$ICP	Manganese	0.0318	mg/L	0.009
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	\$ICP	Nickel	0.00	mg/L	0.003
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	\$ICP	Selenium	0.0153	mg/L	0.009
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	\$ICP	Silver	0.00	mg/L	0.003
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	\$ICP	Strontium	0.178	mg/L	0.009
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	\$ICP	Thallium	0.00	mg/L	0.012
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	\$ICP	Tin	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	\$ICP	Zinc	0.0946	mg/L	0.006
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	PB_FU	Lead by Furnace	3.35	ug/L	1.0
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	AS_FU	Arsenic by Furnace	13.94	ug/L	1.0
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	CU_FU	Copper by Furnace	13.3	ug/L	1
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	TKN	Total Kjeldahl Nitrogen	1.033	mg/L	0.5
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	NO2	Nitrite as N	.0687	mg/l	0.005
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC06097	LM79	Little Miami Watershed	79	8/28/2012	11:00	CHLOROPHYLL	Chlorophyll	12.0	mg/m3	1.00
AC06098	LM70	Little Miami Watershed	70	8/28/2012	12:00	MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	
AC06098	LM70	Little Miami Watershed	70	8/28/2012	12:00	E-COLI	E.coli (Colilert)	2420	MPN	
AC06098	LM70	Little Miami Watershed	70	8/28/2012	12:00	TDS	Total Dissolved Solids	250	mg/L	
AC06098	LM70	Little Miami Watershed	70	8/28/2012	12:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06098	LM70	Little Miami Watershed	70	8/28/2012	12:00	SO4	Sulfate	44.5	mg/L	12.5
AC06098	LM70	Little Miami Watershed	70	8/28/2012	12:00	CL	Chloride	28.3	mg/L	1.00
AC06098	LM70	Little Miami Watershed	70	8/28/2012	12:00	TSS	Tot. Suspended Solids	12	mg/L	2
AC06098	LM70	Little Miami Watershed	70	8/28/2012	12:00	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC06098	LM70	Little Miami Watershed	70	8/28/2012	12:00	HARD	Hardness as CaCO3	182	mg/l	
AC06098	LM70	Little Miami Watershed	70	8/28/2012	12:00	COD	COD	5	mg/L	
AC06098	LM70	Little Miami Watershed	70	8/28/2012	12:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	397	uS/cm	
AC06098	LM70	Little Miami Watershed	70	8/28/2012	12:00	TEMP_FLD	Temperature (Field) Celsius	21.29	Deg C	
AC06098	LM70	Little Miami Watershed	70	8/28/2012	12:00	PH_FLD	pH (Field)	7.88	S.U.	
AC06098	LM70	Little Miami Watershed	70	8/28/2012	12:00	DO_FLD	Dissolved Oxygen (field) mg/L	7.68	mg/l	
AC06098	LM70	Little Miami Watershed	70	8/28/2012	12:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	428	uS/cm	
AC06098	LM70	Little Miami Watershed	70	8/28/2012	12:00	NH3	Ammonia as N	0	mg/L	0.5
AC06098	LM70	Little Miami Watershed	70	8/28/2012	12:00	NO3NO2	Nitrate + Nitrite	1.03	mg/L	0.5
AC06098	LM70	Little Miami Watershed	70	8/28/2012	12:00	TKN	Total Kjeldahl Nitrogen	0.6703	mg/L	0.5
AC06098	LM70	Little Miami Watershed	70	8/28/2012	12:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06098	LM70	Little Miami Watershed	70	8/28/2012	12:00	NO2	Nitrite as N	.0071	mg/l	0.005

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06098	LM70	Little Miami Watershed	70	8/28/2012	12:00	NO3	Nitrate as N (calculated)	1.0229	mg/l	
AC06098	LM70	Little Miami Watershed	70	8/28/2012	12:00	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	E-COLI	E.coli (Colilert)	2420	MPN	
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	TDS	Total Dissolved Solids	520	mg/L	
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	SO4	Sulfate	102	mg/L	25.0
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	CL	Chloride	127	mg/L	2.0
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	TSS	Tot. Suspended Solids	6	mg/L	2
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	SSC	Suspended Sediment Concentration	1320	mg/L	5.0
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	HARD	Hardness as CaCO3	376	mg/l	
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	COD	COD	41	mg/L	
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	925	uS/cm	
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	TEMP_FLD	Temperature (Field) Celsius	20.46	Deg C	
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	PH_FLD	pH (Field)	7.36	S.U.	
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	DO_FLD	Dissolved Oxygen (field) mg/L	4.40	mg/l	
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	1013	uS/cm	
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	\$ICP	Aluminum	1.03	mg/L	0.348
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	\$ICP	Antimony	0.00	mg/L	0.006
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	\$ICP	Arsenic	0.416	mg/L	0.012
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	\$ICP	Barium	0.166	mg/L	0.003
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	\$ICP	Calcium	132	mg/L	0.066
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	\$ICP	Chromium	0.00	mg/L	0.006
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	\$ICP	Cobalt	0.0121	mg/L	0.006
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	\$ICP	Copper	0.0597	mg/L	0.006
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	\$ICP	Iron	4.01	mg/L	0.018
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	\$ICP	Lead	0.0231	mg/L	0.006
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	\$ICP	Magnesium	32.1	mg/L	0.021
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	\$ICP	Manganese	0.615	mg/L	0.009
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	\$ICP	Nickel	0.0298	mg/L	0.003
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	\$ICP	Selenium	0.0209	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	\$ICP	Silver	0.00	mg/L	0.003
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	\$ICP	Strontium	0.493	mg/L	0.009
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	\$ICP	Thallium	0.00	mg/L	0.012
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	\$ICP	Tin	0.00	mg/L	0.006
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	\$ICP	Zinc	0.205	mg/L	0.006
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	PB_FU	Lead by Furnace	27.24	ug/L	1.0
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	AS_FU	Arsenic by Furnace	415.6	ug/L	1.0
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	CU_FU	Copper by Furnace	56.5	ug/L	1
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	NH3	Ammonia as N	0	mg/L	0.5
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	NO3NO2	Nitrate + Nitrite	13.8	mg/L	0.5
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	TKN	Total Kjeldahl Nitrogen	3.204	mg/L	0.5
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	TKP	Total Kjeldahl Phosphorus	0.9684	mg/L	0.5
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	NO2	Nitrite as N	.0246	mg/l	0.005
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	NO3	Nitrate as N (calculated)	13.7754	mg/l	
AC06144	LM78	Little Miami Watershed	78	8/29/2012	09:15	CHLOROPHYLL	Chlorophyll	183	mg/m3	1.00
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	E-COLI	E.coli (Colilert)	2420	MPN	
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	TDS	Total Dissolved Solids	320	mg/L	
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	SO4	Sulfate	53.5	mg/L	25.0
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	CL	Chloride	88.5	mg/L	1.00
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	TSS	Tot. Suspended Solids	14	mg/L	2
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	SSC	Suspended Sediment Concentration	59.1	mg/L	5.0
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	HARD	Hardness as CaCO3	216	mg/l	
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	COD	COD	55	mg/L	
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	562	uS/cm	
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	TEMP_FLD	Temperature (Field) Celsius	22.46	Deg C	
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	PH_FLD	pH (Field)	7.30	S.U.	
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	DO_FLD	Dissolved Oxygen (field) mg/L	3.50	mg/l	
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	590	uS/cm	
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	\$ICP	Aluminum	0.00	mg/L	0.348

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	\$ICP	Antimony	0.00	mg/L	0.006
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	\$ICP	Arsenic	0.140	mg/L	0.012
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	\$ICP	Barium	0.0809	mg/L	0.003
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	\$ICP	Calcium	62.9	mg/L	0.066
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	\$ICP	Chromium	0.00	mg/L	0.006
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	\$ICP	Copper	0.00917	mg/L	0.006
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	\$ICP	Iron	1.54	mg/L	0.018
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	\$ICP	Lead	0.00	mg/L	0.006
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	\$ICP	Magnesium	16.1	mg/L	0.021
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	\$ICP	Manganese	0.544	mg/L	0.009
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	\$ICP	Nickel	0.00	mg/L	0.003
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	\$ICP	Selenium	0.0147	mg/L	0.009
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	\$ICP	Silver	0.00	mg/L	0.003
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	\$ICP	Strontium	0.259	mg/L	0.009
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	\$ICP	Thallium	0.00	mg/L	0.012
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	\$ICP	Tin	0.00	mg/L	0.006
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	\$ICP	Zinc	0.0236	mg/L	0.006
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	PB_FU	Lead by Furnace	4.76	ug/L	1.0
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	AS_FU	Arsenic by Furnace	134.5	ug/L	1.0
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	CU_FU	Copper by Furnace	11.5	ug/L	1
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	NH3	Ammonia as N	0	mg/L	0.5
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	TKN	Total Kjeldahl Nitrogen	0.9229	mg/L	0.5
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	NO2	Nitrite as N	.0066	mg/l	0.005
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	NO3	Nitrate as N (calculated)	AW	mg/l	
AC06145	LM73	Little Miami Watershed	73	8/29/2012	09:40	CHLOROPHYLL	Chlorophyll	11.8	mg/m3	1.00
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	1767	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	E-COLI	E.coli (Colilert)	1733	MPN	
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	TDS	Total Dissolved Solids	440	mg/L	
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	SO4	Sulfate	120	mg/L	25.0
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	CL	Chloride	164	mg/L	2.0
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	TSS	Tot. Suspended Solids	10	mg/L	2
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	HARD	Hardness as CaCO3	292	mg/l	
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	COD	COD	39	mg/L	
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	783	uS/cm	
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	21.22	Deg C	
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	PH_FLD	pH (Field)	7.42	S.U.	
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	5.60	mg/l	
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	844	uS/cm	
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	\$ICP	Antimony	0.00	mg/L	0.006
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	\$ICP	Barium	0.0405	mg/L	0.003
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	\$ICP	Calcium	80.9	mg/L	0.066
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	\$ICP	Chromium	0.00	mg/L	0.006
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	\$ICP	Copper	0.00	mg/L	0.006
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	\$ICP	Iron	0.308	mg/L	0.018
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	\$ICP	Lead	0.00	mg/L	0.006
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	\$ICP	Magnesium	18.0	mg/L	0.021
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	\$ICP	Manganese	0.161	mg/L	0.009
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	\$ICP	Nickel	0.00	mg/L	0.003
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	\$ICP	Selenium	0.00	mg/L	0.009
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	\$ICP	Silver	0.00	mg/L	0.003
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	\$ICP	Strontium	0.302	mg/L	0.009
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	\$ICP	Thallium	0.00	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	\$ICP	Tin	0.00	mg/L	0.006
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	\$ICP	Zinc	0.00728	mg/L	0.006
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	PB_FU	Lead by Furnace	1.03	ug/L	1.0
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	AS_FU	Arsenic by Furnace	2.20	ug/L	1.0
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	CU_FU	Copper by Furnace	5.3	ug/L	1
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	NO3NO2	Nitrate + Nitrite	0.4964	mg/L	0.5
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	TKN	Total Kjeldahl Nitrogen	0.5343	mg/L	0.5
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	NO2	Nitrite as N	.0221	mg/l	0.005
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC06146	LM74	Little Miami Watershed	74	8/29/2012	10:00	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	MF_CF	Fecal Coliform, Membrane Filter	600	CFU/100mL	
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	E-COLI	E.coli (Colilert)	866	MPN	
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	TDS	Total Dissolved Solids	630	mg/L	
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	SO4	Sulfate	110	mg/L	25.0
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	CL	Chloride	116	mg/L	2.0
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	TSS	Tot. Suspended Solids	4	mg/L	2
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	HARD	Hardness as CaCO3	422	mg/l	
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	COD	COD	5	mg/L	
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	912	uS/cm	
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	TEMP_FLD	Temperature (Field) Celsius	21.91	Deg C	
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	PH_FLD	pH (Field)	7.99	S.U.	
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	DO_FLD	Dissolved Oxygen (field) mg/L	16.05	mg/l	
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	969	uS/cm	
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	\$ICP	Aluminum	0.00	mg/L	0.348
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	\$ICP	Antimony	0.00	mg/L	0.006
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	\$ICP	Arsenic	0.00	mg/L	0.012
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	\$ICP	Barium	0.0714	mg/L	0.003



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	\$ICP	Calcium	143	mg/L	0.066
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	\$ICP	Chromium	0.00	mg/L	0.006
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	\$ICP	Copper	0.00	mg/L	0.006
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	\$ICP	Iron	0.0473	mg/L	0.018
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	\$ICP	Lead	0.00	mg/L	0.006
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	\$ICP	Magnesium	31.2	mg/L	0.021
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	\$ICP	Manganese	0.00	mg/L	0.009
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	\$ICP	Nickel	0.00	mg/L	0.003
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	\$ICP	Selenium	0.0171	mg/L	0.009
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	\$ICP	Silver	0.00	mg/L	0.003
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	\$ICP	Strontium	0.366	mg/L	0.009
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	\$ICP	Thallium	0.00	mg/L	0.012
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	\$ICP	Tin	0.00	mg/L	0.006
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	\$ICP	Zinc	0.00	mg/L	0.006
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	PB_FU	Lead by Furnace	0.21	ug/L	1.0
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	AS_FU	Arsenic by Furnace	8.54	ug/L	1.0
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	CU_FU	Copper by Furnace	3.0	ug/L	1
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	NH3	Ammonia as N	0	mg/L	0.5
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	NO3NO2	Nitrate + Nitrite	1.65	mg/L	0.5
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	TKN	Total Kjeldahl Nitrogen	0.4958	mg/L	0.5
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	NO2	Nitrite as N	.0196	mg/l	0.005
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	NO3	Nitrate as N (calculated)	1.6304	mg/l	
AC06147	LM75	Little Miami Watershed	75	8/29/2012	10:15	CHLOROPHYLL	Chlorophyll	17.1	mg/m3	1.00
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	MF_CF	Fecal Coliform, Membrane Filter	867	CFU/100mL	
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	E-COLI	E.coli (Colilert)	1203	MPN	
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	TDS	Total Dissolved Solids	640	mg/L	
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	BOD	Biochemical Oxygen Demand	AE	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	SO4	Sulfate	90.5	mg/L	25.0
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	CL	Chloride	144	mg/L	2.0
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	TSS	Tot. Suspended Solids	2	mg/L	2
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	HARD	Hardness as CaCO3	396	mg/l	
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	COD	COD	36	mg/L	
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	932	uS/cm	
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	TEMP_FLD	Temperature (Field) Celsius	21.37	Deg C	
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	PH_FLD	pH (Field)	7.81	S.U.	
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	DO_FLD	Dissolved Oxygen (field) mg/L	9.55	mg/l	
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	1002	uS/cm	
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	\$ICP	Antimony	0.00	mg/L	0.006
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	\$ICP	Arsenic	0.0153	mg/L	0.012
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	\$ICP	Barium	0.0656	mg/L	0.003
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	\$ICP	Calcium	121	mg/L	0.066
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	\$ICP	Chromium	0.00	mg/L	0.006
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	\$ICP	Copper	0.00	mg/L	0.006
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	\$ICP	Iron	0.0814	mg/L	0.018
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	\$ICP	Lead	0.00	mg/L	0.006
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	\$ICP	Magnesium	26.5	mg/L	0.021
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	\$ICP	Manganese	0.0115	mg/L	0.009
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	\$ICP	Nickel	0.00	mg/L	0.003
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	\$ICP	Selenium	0.0125	mg/L	0.009
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	\$ICP	Silver	0.00	mg/L	0.003
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	\$ICP	Strontium	0.348	mg/L	0.009
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	\$ICP	Thallium	0.00	mg/L	0.012
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	\$ICP	Tin	0.00	mg/L	0.006
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	\$ICP	Zinc	0.0149	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	PB_FU	Lead by Furnace	0.23	ug/L	1.0
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	AS_FU	Arsenic by Furnace	11.56	ug/L	1.0
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	CU_FU	Copper by Furnace	4.8	ug/L	1
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	NH3	Ammonia as N	0	mg/L	0.5
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	NO3NO2	Nitrate + Nitrite	2.88	mg/L	0.5
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	TKN	Total Kjeldahl Nitrogen	0.6133	mg/L	0.5
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	NO2	Nitrite as N	.0497	mg/l	0.005
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	NO3	Nitrate as N (calculated)	2.8303	mg/l	
AC06148	LM76	Little Miami Watershed	76	8/29/2012	10:40	CHLOROPHYLL	Chlorophyll	6.94	mg/m3	1.00
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	1367	CFU/100mL	
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	E-COLI	E.coli (Colilert)	1553	MPN	
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	TDS	Total Dissolved Solids	340	mg/L	
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	SO4	Sulfate	68.0	mg/L	25.0
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	CL	Chloride	82.6	mg/L	1.00
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	TSS	Tot. Suspended Solids	10	mg/L	2
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	HARD	Hardness as CaCO3	244	mg/l	
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	COD	COD	65	mg/L	
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	653	uS/cm	
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	22.56	Deg C	
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	PH_FLD	pH (Field)	7.35	S.U.	
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	6.77	mg/l	
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	686	uS/cm	
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	\$ICP	Antimony	0.00	mg/L	0.006
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	\$ICP	Arsenic	0.0162	mg/L	0.012
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	\$ICP	Barium	0.0461	mg/L	0.003
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	\$ICP	Calcium	66.2	mg/L	0.066

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	\$ICP	Chromium	0.00	mg/L	0.006
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	\$ICP	Copper	0.00	mg/L	0.006
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	\$ICP	Iron	0.322	mg/L	0.018
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	\$ICP	Lead	0.00	mg/L	0.006
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	\$ICP	Magnesium	15.7	mg/L	0.021
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	\$ICP	Manganese	0.167	mg/L	0.009
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	\$ICP	Nickel	0.00	mg/L	0.003
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	\$ICP	Selenium	0.00	mg/L	0.009
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	\$ICP	Silver	0.00	mg/L	0.003
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	\$ICP	Strontium	0.244	mg/L	0.009
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	\$ICP	Thallium	0.00	mg/L	0.012
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	\$ICP	Tin	0.00	mg/L	0.006
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	\$ICP	Zinc	0.0106	mg/L	0.006
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	PB_FU	Lead by Furnace	1.04	ug/L	1.0
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	AS_FU	Arsenic by Furnace	16.95	ug/L	1.0
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	CU_FU	Copper by Furnace	6.3	ug/L	1
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	TKN	Total Kjeldahl Nitrogen	0.8903	mg/L	0.5
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	NO2	Nitrite as N	.0271	mg/l	0.005
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC06149	LM77	Little Miami Watershed	77	8/29/2012	11:00	CHLOROPHYLL	Chlorophyll	133	mg/m3	1.00
AC06150	LM69	Little Miami Watershed	69	8/29/2012	11:30	MF_CF	Fecal Coliform, Membrane Filter	280	CFU/100mL	
AC06150	LM69	Little Miami Watershed	69	8/29/2012	11:30	E-COLI	E.coli (Colilert)	326	MPN	
AC06150	LM69	Little Miami Watershed	69	8/29/2012	11:30	TDS	Total Dissolved Solids	340	mg/L	
AC06150	LM69	Little Miami Watershed	69	8/29/2012	11:30	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC06150	LM69	Little Miami Watershed	69	8/29/2012	11:30	SO4	Sulfate	73.5	mg/L	25.0
AC06150	LM69	Little Miami Watershed	69	8/29/2012	11:30	CL	Chloride	82.6	mg/L	1.00
AC06150	LM69	Little Miami Watershed	69	8/29/2012	11:30	TSS	Tot. Suspended Solids	3	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06150	LM69	Little Miami Watershed	69	8/29/2012	11:30	SSC	Suspended Sediment Concentration	15.5	mg/L	5.0
AC06150	LM69	Little Miami Watershed	69	8/29/2012	11:30	HARD	Hardness as CaCO3	276	mg/l	
AC06150	LM69	Little Miami Watershed	69	8/29/2012	11:30	COD	COD	34	mg/L	
AC06150	LM69	Little Miami Watershed	69	8/29/2012	11:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	700	uS/cm	
AC06150	LM69	Little Miami Watershed	69	8/29/2012	11:30	TEMP_FLD	Temperature (Field) Celsius	20.71	Deg C	
AC06150	LM69	Little Miami Watershed	69	8/29/2012	11:30	PH_FLD	pH (Field)	7.62	S.U.	
AC06150	LM69	Little Miami Watershed	69	8/29/2012	11:30	DO_FLD	Dissolved Oxygen (field) mg/L	9.31	mg/l	
AC06150	LM69	Little Miami Watershed	69	8/29/2012	11:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	763	uS/cm	
AC06150	LM69	Little Miami Watershed	69	8/29/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC06150	LM69	Little Miami Watershed	69	8/29/2012	11:30	NO3NO2	Nitrate + Nitrite	0.560	mg/L	0.5
AC06150	LM69	Little Miami Watershed	69	8/29/2012	11:30	TKN	Total Kjeldahl Nitrogen	0.2530	mg/L	0.5
AC06150	LM69	Little Miami Watershed	69	8/29/2012	11:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06150	LM69	Little Miami Watershed	69	8/29/2012	11:30	NO2	Nitrite as N	.0032	mg/l	0.005
AC06150	LM69	Little Miami Watershed	69	8/29/2012	11:30	NO3	Nitrate as N (calculated)	0.5568	mg/l	
AC06150	LM69	Little Miami Watershed	69	8/29/2012	11:30	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC06193	LM10	Little Miami Watershed	10 (3261-10)	8/30/2012	08:40	MF_CF	Fecal Coliform, Membrane Filter	100	CFU/100mL	
AC06193	LM10	Little Miami Watershed	10 (3261-10)	8/30/2012	08:40	E-COLI	E.coli (Colilert)	124	MPN	
AC06193	LM10	Little Miami Watershed	10 (3261-10)	8/30/2012	08:40	TDS	Total Dissolved Solids	440	mg/L	
AC06193	LM10	Little Miami Watershed	10 (3261-10)	8/30/2012	08:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06193	LM10	Little Miami Watershed	10 (3261-10)	8/30/2012	08:40	SO4	Sulfate	68.5	mg/L	25.0
AC06193	LM10	Little Miami Watershed	10 (3261-10)	8/30/2012	08:40	CL	Chloride	241	mg/L	4.0
AC06193	LM10	Little Miami Watershed	10 (3261-10)	8/30/2012	08:40	TSS	Tot. Suspended Solids	12	mg/L	2
AC06193	LM10	Little Miami Watershed	10 (3261-10)	8/30/2012	08:40	SSC	Suspended Sediment Concentration	17.7	mg/L	5.0
AC06193	LM10	Little Miami Watershed	10 (3261-10)	8/30/2012	08:40	HARD	Hardness as CaCO3	344	mg/l	
AC06193	LM10	Little Miami Watershed	10 (3261-10)	8/30/2012	08:40	COD	COD	38	mg/L	
AC06193	LM10	Little Miami Watershed	10 (3261-10)	8/30/2012	08:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	972	uS/cm	
AC06193	LM10	Little Miami Watershed	10 (3261-10)	8/30/2012	08:40	TEMP_FLD	Temperature (Field) Celsius	23.71	Deg C	
AC06193	LM10	Little Miami Watershed	10 (3261-10)	8/30/2012	08:40	PH_FLD	pH (Field)	7.92	S.U.	
AC06193	LM10	Little Miami Watershed	10 (3261-10)	8/30/2012	08:40	DO_FLD	Dissolved Oxygen (field) mg/L	6.24	mg/l	
AC06193	LM10	Little Miami Watershed	10 (3261-10)	8/30/2012	08:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	996	uS/cm	
AC06193	LM10	Little Miami Watershed	10 (3261-10)	8/30/2012	08:40	NH3	Ammonia as N	0	mg/L	0.5
AC06193	LM10	Little Miami Watershed	10 (3261-10)	8/30/2012	08:40	NO3NO2	Nitrate + Nitrite	2.04	mg/L	0.5
AC06193	LM10	Little Miami Watershed	10 (3261-10)	8/30/2012	08:40	TKN	Total Kjeldahl Nitrogen	0.8871	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06193	LM10	Little Miami Watershed	10 (3261-10)	8/30/2012	08:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06193	LM10	Little Miami Watershed	10 (3261-10)	8/30/2012	08:40	NO2	Nitrite as N	.0260	mg/l	0.005
AC06193	LM10	Little Miami Watershed	10 (3261-10)	8/30/2012	08:40	NO3	Nitrate as N (calculated)	2.0140	mg/l	
AC06193	LM10	Little Miami Watershed	10 (3261-10)	8/30/2012	08:40	CHLOROPHYLL	Chlorophyll	7.48	mg/m3	1.00
AC06194	LM12	Little Miami Watershed	12 (3261-04)	8/30/2012	09:20	MF_CF	Fecal Coliform, Membrane Filter	270	CFU/100mL	
AC06194	LM12	Little Miami Watershed	12 (3261-04)	8/30/2012	09:20	E-COLI	E.coli (Colilert)	236	MPN	
AC06194	LM12	Little Miami Watershed	12 (3261-04)	8/30/2012	09:20	TDS	Total Dissolved Solids	350	mg/L	
AC06194	LM12	Little Miami Watershed	12 (3261-04)	8/30/2012	09:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06194	LM12	Little Miami Watershed	12 (3261-04)	8/30/2012	09:20	SO4	Sulfate	50.0	mg/L	12.5
AC06194	LM12	Little Miami Watershed	12 (3261-04)	8/30/2012	09:20	CL	Chloride	156	mg/L	2.0
AC06194	LM12	Little Miami Watershed	12 (3261-04)	8/30/2012	09:20	TSS	Tot. Suspended Solids	36	mg/L	2
AC06194	LM12	Little Miami Watershed	12 (3261-04)	8/30/2012	09:20	SSC	Suspended Sediment Concentration	29.2	mg/L	5.0
AC06194	LM12	Little Miami Watershed	12 (3261-04)	8/30/2012	09:20	HARD	Hardness as CaCO3	280	mg/l	
AC06194	LM12	Little Miami Watershed	12 (3261-04)	8/30/2012	09:20	COD	COD	31	mg/L	
AC06194	LM12	Little Miami Watershed	12 (3261-04)	8/30/2012	09:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	778	uS/cm	
AC06194	LM12	Little Miami Watershed	12 (3261-04)	8/30/2012	09:20	TEMP_FLD	Temperature (Field) Celsius	24.17	Deg C	
AC06194	LM12	Little Miami Watershed	12 (3261-04)	8/30/2012	09:20	PH_FLD	pH (Field)	7.78	S.U.	
AC06194	LM12	Little Miami Watershed	12 (3261-04)	8/30/2012	09:20	DO_FLD	Dissolved Oxygen (field) mg/L	7.58	mg/l	
AC06194	LM12	Little Miami Watershed	12 (3261-04)	8/30/2012	09:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	790	uS/cm	
AC06194	LM12	Little Miami Watershed	12 (3261-04)	8/30/2012	09:20	NH3	Ammonia as N	0	mg/L	0.5
AC06194	LM12	Little Miami Watershed	12 (3261-04)	8/30/2012	09:20	NO3NO2	Nitrate + Nitrite	1.69	mg/L	0.5
AC06194	LM12	Little Miami Watershed	12 (3261-04)	8/30/2012	09:20	TKN	Total Kjeldahl Nitrogen	0.7742	mg/L	0.5
AC06194	LM12	Little Miami Watershed	12 (3261-04)	8/30/2012	09:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06194	LM12	Little Miami Watershed	12 (3261-04)	8/30/2012	09:20	NO2	Nitrite as N	0.0210	mg/l	0.005
AC06194	LM12	Little Miami Watershed	12 (3261-04)	8/30/2012	09:20	NO3	Nitrate as N (calculated)	1.6690	mg/l	
AC06194	LM12	Little Miami Watershed	12 (3261-04)	8/30/2012	09:20	CHLOROPHYLL	Chlorophyll	8.01	mg/m3	1.00
AC06195	LM13	Little Miami Watershed	13 (3261-03)	8/30/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	480	CFU/100mL	
AC06195	LM13	Little Miami Watershed	13 (3261-03)	8/30/2012	10:00	E-COLI	E.coli (Colilert)	461	MPN	
AC06195	LM13	Little Miami Watershed	13 (3261-03)	8/30/2012	10:00	TDS	Total Dissolved Solids	390	mg/L	
AC06195	LM13	Little Miami Watershed	13 (3261-03)	8/30/2012	10:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06195	LM13	Little Miami Watershed	13 (3261-03)	8/30/2012	10:00	SO4	Sulfate	53.0	mg/L	12.5
AC06195	LM13	Little Miami Watershed	13 (3261-03)	8/30/2012	10:00	CL	Chloride	154	mg/L	2.0
AC06195	LM13	Little Miami Watershed	13 (3261-03)	8/30/2012	10:00	TSS	Tot. Suspended Solids	20	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06195	LM13	Little Miami Watershed	13 (3261-03)	8/30/2012	10:00	SSC	Suspended Sediment Concentration	55.2	mg/L	5.0
AC06195	LM13	Little Miami Watershed	13 (3261-03)	8/30/2012	10:00	HARD	Hardness as CaCO3	282	mg/l	
AC06195	LM13	Little Miami Watershed	13 (3261-03)	8/30/2012	10:00	COD	COD	30	mg/L	
AC06195	LM13	Little Miami Watershed	13 (3261-03)	8/30/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	805	uS/cm	
AC06195	LM13	Little Miami Watershed	13 (3261-03)	8/30/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	24.59	Deg C	
AC06195	LM13	Little Miami Watershed	13 (3261-03)	8/30/2012	10:00	PH_FLD	pH (Field)	7.87	S.U.	
AC06195	LM13	Little Miami Watershed	13 (3261-03)	8/30/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	8.00	mg/l	
AC06195	LM13	Little Miami Watershed	13 (3261-03)	8/30/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	811	uS/cm	
AC06195	LM13	Little Miami Watershed	13 (3261-03)	8/30/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC06195	LM13	Little Miami Watershed	13 (3261-03)	8/30/2012	10:00	NO3NO2	Nitrate + Nitrite	1.60	mg/L	0.5
AC06195	LM13	Little Miami Watershed	13 (3261-03)	8/30/2012	10:00	TKN	Total Kjeldahl Nitrogen	0.8611	mg/L	0.5
AC06195	LM13	Little Miami Watershed	13 (3261-03)	8/30/2012	10:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06195	LM13	Little Miami Watershed	13 (3261-03)	8/30/2012	10:00	NO2	Nitrite as N	.0208	mg/l	0.005
AC06195	LM13	Little Miami Watershed	13 (3261-03)	8/30/2012	10:00	NO3	Nitrate as N (calculated)	1.5792	mg/l	
AC06195	LM13	Little Miami Watershed	13 (3261-03)	8/30/2012	10:00	CHLOROPHYLL	Chlorophyll	10.7	mg/m3	1.00
AC06196	LM14	Little Miami Watershed	14	8/30/2012	10:40	MF_CF	Fecal Coliform, Membrane Filter	270	CFU/100mL	
AC06196	LM14	Little Miami Watershed	14	8/30/2012	10:40	E-COLI	E.coli (Colilert)	261	MPN	
AC06196	LM14	Little Miami Watershed	14	8/30/2012	10:40	TDS	Total Dissolved Solids	350	mg/L	
AC06196	LM14	Little Miami Watershed	14	8/30/2012	10:40	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC06196	LM14	Little Miami Watershed	14	8/30/2012	10:40	SO4	Sulfate	47.8	mg/L	12.5
AC06196	LM14	Little Miami Watershed	14	8/30/2012	10:40	CL	Chloride	106	mg/L	1.00
AC06196	LM14	Little Miami Watershed	14	8/30/2012	10:40	TSS	Tot. Suspended Solids	22	mg/L	2
AC06196	LM14	Little Miami Watershed	14	8/30/2012	10:40	SSC	Suspended Sediment Concentration	25.1	mg/L	5.0
AC06196	LM14	Little Miami Watershed	14	8/30/2012	10:40	HARD	Hardness as CaCO3	284	mg/l	
AC06196	LM14	Little Miami Watershed	14	8/30/2012	10:40	COD	COD	5	mg/L	
AC06196	LM14	Little Miami Watershed	14	8/30/2012	10:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	780	uS/cm	
AC06196	LM14	Little Miami Watershed	14	8/30/2012	10:40	TEMP_FLD	Temperature (Field) Celsius	24.76	Deg C	
AC06196	LM14	Little Miami Watershed	14	8/30/2012	10:40	PH_FLD	pH (Field)	7.14	S.U.	
AC06196	LM14	Little Miami Watershed	14	8/30/2012	10:40	DO_FLD	Dissolved Oxygen (field) mg/L	7.93	mg/l	
AC06196	LM14	Little Miami Watershed	14	8/30/2012	10:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	784	uS/cm	
AC06196	LM14	Little Miami Watershed	14	8/30/2012	10:40	NH3	Ammonia as N	0	mg/L	0.5
AC06196	LM14	Little Miami Watershed	14	8/30/2012	10:40	NO3NO2	Nitrate + Nitrite	1.58	mg/L	0.5
AC06196	LM14	Little Miami Watershed	14	8/30/2012	10:40	TKN	Total Kjeldahl Nitrogen	0.5714	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06196	LM14	Little Miami Watershed	14	8/30/2012	10:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06196	LM14	Little Miami Watershed	14	8/30/2012	10:40	NO2	Nitrite as N	.0190	mg/l	0.005
AC06196	LM14	Little Miami Watershed	14	8/30/2012	10:40	NO3	Nitrate as N (calculated)	1.5610	mg/l	
AC06196	LM14	Little Miami Watershed	14	8/30/2012	10:40	CHLOROPHYLL	Chlorophyll	12.8	mg/m3	1.00
AC06197	LM15	Little Miami Watershed	15	8/30/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	210	CFU/100mL	
AC06197	LM15	Little Miami Watershed	15	8/30/2012	11:00	E-COLI	E.coli (Colilert)	119	MPN	
AC06197	LM15	Little Miami Watershed	15	8/30/2012	11:00	TDS	Total Dissolved Solids	320	mg/L	
AC06197	LM15	Little Miami Watershed	15	8/30/2012	11:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06197	LM15	Little Miami Watershed	15	8/30/2012	11:00	SO4	Sulfate	45.0	mg/L	12.5
AC06197	LM15	Little Miami Watershed	15	8/30/2012	11:00	CL	Chloride	101	mg/L	1.00
AC06197	LM15	Little Miami Watershed	15	8/30/2012	11:00	TSS	Tot. Suspended Solids	28	mg/L	2
AC06197	LM15	Little Miami Watershed	15	8/30/2012	11:00	SSC	Suspended Sediment Concentration	29.7	mg/L	5.0
AC06197	LM15	Little Miami Watershed	15	8/30/2012	11:00	HARD	Hardness as CaCO3	280	mg/l	
AC06197	LM15	Little Miami Watershed	15	8/30/2012	11:00	COD	COD	32	mg/L	
AC06197	LM15	Little Miami Watershed	15	8/30/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	774	uS/cm	
AC06197	LM15	Little Miami Watershed	15	8/30/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	26.26	Deg C	
AC06197	LM15	Little Miami Watershed	15	8/30/2012	11:00	PH_FLD	pH (Field)	7.93	S.U.	
AC06197	LM15	Little Miami Watershed	15	8/30/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	13.99	mg/l	
AC06197	LM15	Little Miami Watershed	15	8/30/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	755	uS/cm	
AC06197	LM15	Little Miami Watershed	15	8/30/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC06197	LM15	Little Miami Watershed	15	8/30/2012	11:00	NO3NO2	Nitrate + Nitrite	1.54	mg/L	0.5
AC06197	LM15	Little Miami Watershed	15	8/30/2012	11:00	TKN	Total Kjeldahl Nitrogen	0.6550	mg/L	0.5
AC06197	LM15	Little Miami Watershed	15	8/30/2012	11:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06197	LM15	Little Miami Watershed	15	8/30/2012	11:00	NO2	Nitrite as N	.0184	mg/l	0.005
AC06197	LM15	Little Miami Watershed	15	8/30/2012	11:00	NO3	Nitrate as N (calculated)	1.5216	mg/l	
AC06197	LM15	Little Miami Watershed	15	8/30/2012	11:00	CHLOROPHYLL	Chlorophyll	10.2	mg/m3	1.00
AC06198	LM16	Little Miami Watershed	16 (3261-02)	8/30/2012	11:15	MF_CF	Fecal Coliform, Membrane Filter	250	CFU/100mL	
AC06198	LM16	Little Miami Watershed	16 (3261-02)	8/30/2012	11:15	E-COLI	E.coli (Colilert)	222	MPN	
AC06198	LM16	Little Miami Watershed	16 (3261-02)	8/30/2012	11:15	TDS	Total Dissolved Solids	320	mg/L	
AC06198	LM16	Little Miami Watershed	16 (3261-02)	8/30/2012	11:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06198	LM16	Little Miami Watershed	16 (3261-02)	8/30/2012	11:15	SO4	Sulfate	47.2	mg/L	12.5
AC06198	LM16	Little Miami Watershed	16 (3261-02)	8/30/2012	11:15	CL	Chloride	99.4	mg/L	1.00
AC06198	LM16	Little Miami Watershed	16 (3261-02)	8/30/2012	11:15	TSS	Tot. Suspended Solids	30	mg/L	2



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06198	LM16	Little Miami Watershed	16 (3261-02)	8/30/2012	11:15	SSC	Suspended Sediment Concentration	23.9	mg/L	5.0
AC06198	LM16	Little Miami Watershed	16 (3261-02)	8/30/2012	11:15	HARD	Hardness as CaCO3	286	mg/l	
AC06198	LM16	Little Miami Watershed	16 (3261-02)	8/30/2012	11:15	COD	COD	30	mg/L	
AC06198	LM16	Little Miami Watershed	16 (3261-02)	8/30/2012	11:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	782	uS/cm	
AC06198	LM16	Little Miami Watershed	16 (3261-02)	8/30/2012	11:15	TEMP_FLD	Temperature (Field) Celsius	24.50	Deg C	
AC06198	LM16	Little Miami Watershed	16 (3261-02)	8/30/2012	11:15	PH_FLD	pH (Field)	7.43	S.U.	
AC06198	LM16	Little Miami Watershed	16 (3261-02)	8/30/2012	11:15	DO_FLD	Dissolved Oxygen (field) mg/L	7.88	mg/l	
AC06198	LM16	Little Miami Watershed	16 (3261-02)	8/30/2012	11:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	790	uS/cm	
AC06198	LM16	Little Miami Watershed	16 (3261-02)	8/30/2012	11:15	NH3	Ammonia as N	0	mg/L	0.5
AC06198	LM16	Little Miami Watershed	16 (3261-02)	8/30/2012	11:15	NO3NO2	Nitrate + Nitrite	1.48	mg/L	0.5
AC06198	LM16	Little Miami Watershed	16 (3261-02)	8/30/2012	11:15	TKN	Total Kjeldahl Nitrogen	0.9268	mg/L	0.5
AC06198	LM16	Little Miami Watershed	16 (3261-02)	8/30/2012	11:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06198	LM16	Little Miami Watershed	16 (3261-02)	8/30/2012	11:15	NO2	Nitrite as N	.0193	mg/l	0.005
AC06198	LM16	Little Miami Watershed	16 (3261-02)	8/30/2012	11:15	NO3	Nitrate as N (calculated)	1.4607	mg/l	
AC06198	LM16	Little Miami Watershed	16 (3261-02)	8/30/2012	11:15	CHLOROPHYLL	Chlorophyll	14.4	mg/m3	1.00
AC06199	LM17	Little Miami Watershed	17 (3261-01)	8/30/2012	11:50	MF_CF	Fecal Coliform, Membrane Filter	580	CFU/100mL	
AC06199	LM17	Little Miami Watershed	17 (3261-01)	8/30/2012	11:50	E-COLI	E.coli (Colilert)	365	MPN	
AC06199	LM17	Little Miami Watershed	17 (3261-01)	8/30/2012	11:50	TDS	Total Dissolved Solids	240	mg/L	
AC06199	LM17	Little Miami Watershed	17 (3261-01)	8/30/2012	11:50	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC06199	LM17	Little Miami Watershed	17 (3261-01)	8/30/2012	11:50	SO4	Sulfate	39.5	mg/L	12.5
AC06199	LM17	Little Miami Watershed	17 (3261-01)	8/30/2012	11:50	CL	Chloride	87.2	mg/L	1.00
AC06199	LM17	Little Miami Watershed	17 (3261-01)	8/30/2012	11:50	TSS	Tot. Suspended Solids	30	mg/L	2
AC06199	LM17	Little Miami Watershed	17 (3261-01)	8/30/2012	11:50	SSC	Suspended Sediment Concentration	27.0	mg/L	5.0
AC06199	LM17	Little Miami Watershed	17 (3261-01)	8/30/2012	11:50	HARD	Hardness as CaCO3	266	mg/l	
AC06199	LM17	Little Miami Watershed	17 (3261-01)	8/30/2012	11:50	COD	COD	37	mg/L	
AC06199	LM17	Little Miami Watershed	17 (3261-01)	8/30/2012	11:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	695	uS/cm	
AC06199	LM17	Little Miami Watershed	17 (3261-01)	8/30/2012	11:50	TEMP_FLD	Temperature (Field) Celsius	24.99	Deg C	
AC06199	LM17	Little Miami Watershed	17 (3261-01)	8/30/2012	11:50	PH_FLD	pH (Field)	7.24	S.U.	
AC06199	LM17	Little Miami Watershed	17 (3261-01)	8/30/2012	11:50	DO_FLD	Dissolved Oxygen (field) mg/L	6.40	mg/l	
AC06199	LM17	Little Miami Watershed	17 (3261-01)	8/30/2012	11:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	695	uS/cm	
AC06199	LM17	Little Miami Watershed	17 (3261-01)	8/30/2012	11:50	NH3	Ammonia as N	0	mg/L	0.5
AC06199	LM17	Little Miami Watershed	17 (3261-01)	8/30/2012	11:50	NO3NO2	Nitrate + Nitrite	1.41	mg/L	0.5
AC06199	LM17	Little Miami Watershed	17 (3261-01)	8/30/2012	11:50	TKN	Total Kjeldahl Nitrogen	0.9385	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06199	LM17	Little Miami Watershed	17 (3261-01)	8/30/2012	11:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06199	LM17	Little Miami Watershed	17 (3261-01)	8/30/2012	11:50	NO2	Nitrite as N	.0218	mg/l	0.005
AC06199	LM17	Little Miami Watershed	17 (3261-01)	8/30/2012	11:50	NO3	Nitrate as N (calculated)	1.3882	mg/l	
AC06199	LM17	Little Miami Watershed	17 (3261-01)	8/30/2012	11:50	CHLOROPHYLL	Chlorophyll	25.1	mg/m3	1.00
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	MF_CF	Fecal Coliform, Membrane Filter	114	CFU/100mL	
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	E-COLI	E.coli (Colilert)	125	MPN	
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	TDS	Total Dissolved Solids	380	mg/L	
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	SO4	Sulfate	40.2	mg/L	12.5
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	CL	Chloride	41.4	mg/L	1.00
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	TSS	Tot. Suspended Solids	28	mg/L	2
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	SSC	Suspended Sediment Concentration	5.9	mg/L	5.0
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	HARD	Hardness as CaCO3	374	mg/l	
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	COD	COD	16	mg/L	
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	645	uS/cm	
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	TEMP_FLD	Temperature (Field) Celsius	15.99	Deg C	
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	PH_FLD	pH (Field)	6.98	S.U.	
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	DO_FLD	Dissolved Oxygen (field) mg/L	1.60	mg/l	
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	780	uS/cm	
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	\$ICP	Antimony	0.00	mg/L	0.006
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	\$ICP	Arsenic	0.00	mg/L	0.012
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	\$ICP	Barium	0.0667	mg/L	0.003
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	\$ICP	Calcium	121	mg/L	0.066
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	\$ICP	Chromium	0.00	mg/L	0.006
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	\$ICP	Copper	0.00	mg/L	0.006
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	\$ICP	Iron	0.210	mg/L	0.018
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	\$ICP	Lead	0.00	mg/L	0.006
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	\$ICP	Magnesium	22.1	mg/L	0.021
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	\$ICP	Manganese	0.124	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	\$ICP	Nickel	0.00	mg/L	0.003
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	\$ICP	Selenium	0.0306	mg/L	0.009
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	\$ICP	Silver	0.00	mg/L	0.003
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	\$ICP	Strontium	0.253	mg/L	0.009
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	\$ICP	Thallium	0.00	mg/L	0.012
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	\$ICP	Tin	0.00	mg/L	0.006
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	\$ICP	Zinc	0.00	mg/L	0.006
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	PB_FU	Lead by Furnace	0.13	ug/L	1.0
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	AS_FU	Arsenic by Furnace	0.44	ug/L	1.0
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	CU_FU	Copper by Furnace	1.3	ug/L	1
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	NH3	Ammonia as N	0	mg/L	0.5
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	NO3NO2	Nitrate + Nitrite	0.1378	mg/L	0.5
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	NO2	Nitrite as N	0.0077	mg/l	0.005
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	NO3	Nitrate as N (calculated)	0.1301	mg/l	
AC06294	RF09	Little Miami Watershed	09	8/31/2012	08:40	CHLOROPHYLL	Chlorophyll	17.6	mg/m3	1.00
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	MF_CF	Fecal Coliform, Membrane Filter	57	CFU/100mL	
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	E-COLI	E.coli (Colilert)	28	MPN	
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	TDS	Total Dissolved Solids	290	mg/L	
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	SO4	Sulfate	36.0	mg/L	12.5
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	CL	Chloride	74.0	mg/L	1.00
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	TSS	Tot. Suspended Solids	11	mg/L	2
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	SSC	Suspended Sediment Concentration	12.0	mg/L	5.0
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	HARD	Hardness as CaCO3	266	mg/l	
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	COD	COD	29	mg/L	
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	601	uS/cm	
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	TEMP_FLD	Temperature (Field) Celsius	19.98	Deg C	
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	PH_FLD	pH (Field)	7.16	S.U.	
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	DO_FLD	Dissolved Oxygen (field) mg/L	3.55	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	665	uS/cm	
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	\$ICP	Aluminum	0.00	mg/L	0.348
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	\$ICP	Antimony	0.00	mg/L	0.006
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	\$ICP	Arsenic	0.00	mg/L	0.012
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	\$ICP	Barium	0.0665	mg/L	0.003
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	\$ICP	Calcium	76.9	mg/L	0.066
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	\$ICP	Chromium	0.00	mg/L	0.006
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	\$ICP	Copper	0.00	mg/L	0.006
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	\$ICP	Iron	0.387	mg/L	0.018
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	\$ICP	Lead	0.00	mg/L	0.006
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	\$ICP	Magnesium	18.4	mg/L	0.021
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	\$ICP	Manganese	0.392	mg/L	0.009
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	\$ICP	Nickel	0.00	mg/L	0.003
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	\$ICP	Selenium	0.0243	mg/L	0.009
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	\$ICP	Silver	0.00	mg/L	0.003
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	\$ICP	Strontium	0.270	mg/L	0.009
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	\$ICP	Thallium	0.00	mg/L	0.012
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	\$ICP	Tin	0.00	mg/L	0.006
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	\$ICP	Zinc	0.00	mg/L	0.006
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	PB_FU	Lead by Furnace	0.14	ug/L	1.0
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	AS_FU	Arsenic by Furnace	1.40	ug/L	1.0
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	CU_FU	Copper by Furnace	1.7	ug/L	1
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	NH3	Ammonia as N	0	mg/L	0.5
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	NO2	Nitrite as N	0.0031	mg/l	0.005
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	NO3	Nitrate as N (calculated)	AW	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06295	RF08	Little Miami Watershed	08	8/31/2012	09:10	CHLOROPHYLL	Chlorophyll	11.2	mg/m3	1.00
AC06296	LM62	Little Miami Watershed	62	8/31/2012	10:10	MF_CF	Fecal Coliform, Membrane Filter	1667	CFU/100mL	
AC06296	LM62	Little Miami Watershed	62	8/31/2012	10:10	E-COLI	E.coli (Colilert)	1986	MPN	
AC06296	LM62	Little Miami Watershed	62	8/31/2012	10:10	TDS	Total Dissolved Solids	350	mg/L	
AC06296	LM62	Little Miami Watershed	62	8/31/2012	10:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06296	LM62	Little Miami Watershed	62	8/31/2012	10:10	SO4	Sulfate	42.2	mg/L	12.5
AC06296	LM62	Little Miami Watershed	62	8/31/2012	10:10	CL	Chloride	128	mg/L	2.0
AC06296	LM62	Little Miami Watershed	62	8/31/2012	10:10	TSS	Tot. Suspended Solids	12	mg/L	2
AC06296	LM62	Little Miami Watershed	62	8/31/2012	10:10	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC06296	LM62	Little Miami Watershed	62	8/31/2012	10:10	HARD	Hardness as CaCO3	208	mg/l	
AC06296	LM62	Little Miami Watershed	62	8/31/2012	10:10	COD	COD	39	mg/L	
AC06296	LM62	Little Miami Watershed	62	8/31/2012	10:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	651	uS/cm	
AC06296	LM62	Little Miami Watershed	62	8/31/2012	10:10	TEMP_FLD	Temperature (Field) Celsius	18.94	Deg C	
AC06296	LM62	Little Miami Watershed	62	8/31/2012	10:10	PH_FLD	pH (Field)	7.52	S.U.	
AC06296	LM62	Little Miami Watershed	62	8/31/2012	10:10	DO_FLD	Dissolved Oxygen (field) mg/L	3.70	mg/l	
AC06296	LM62	Little Miami Watershed	62	8/31/2012	10:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	736	uS/cm	
AC06296	LM62	Little Miami Watershed	62	8/31/2012	10:10	NH3	Ammonia as N	0	mg/L	0.5
AC06296	LM62	Little Miami Watershed	62	8/31/2012	10:10	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC06296	LM62	Little Miami Watershed	62	8/31/2012	10:10	TKN	Total Kjeldahl Nitrogen	0.5709	mg/L	0.5
AC06296	LM62	Little Miami Watershed	62	8/31/2012	10:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06296	LM62	Little Miami Watershed	62	8/31/2012	10:10	NO2	Nitrite as N	0.0043	mg/l	0.005
AC06296	LM62	Little Miami Watershed	62	8/31/2012	10:10	NO3	Nitrate as N (calculated)	AW	mg/l	
AC06296	LM62	Little Miami Watershed	62	8/31/2012	10:10	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC06297	LM63	Little Miami Watershed	63	8/31/2012	10:50	MF_CF	Fecal Coliform, Membrane Filter	360	CFU/100mL	
AC06297	LM63	Little Miami Watershed	63	8/31/2012	10:50	E-COLI	E.coli (Colilert)	1120	MPN	
AC06297	LM63	Little Miami Watershed	63	8/31/2012	10:50	TDS	Total Dissolved Solids	500	mg/L	
AC06297	LM63	Little Miami Watershed	63	8/31/2012	10:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06297	LM63	Little Miami Watershed	63	8/31/2012	10:50	SO4	Sulfate	128	mg/L	25.0
AC06297	LM63	Little Miami Watershed	63	8/31/2012	10:50	CL	Chloride	148	mg/L	4.0
AC06297	LM63	Little Miami Watershed	63	8/31/2012	10:50	TSS	Tot. Suspended Solids	20	mg/L	2
AC06297	LM63	Little Miami Watershed	63	8/31/2012	10:50	SSC	Suspended Sediment Concentration	75.2	mg/L	5.0
AC06297	LM63	Little Miami Watershed	63	8/31/2012	10:50	HARD	Hardness as CaCO3	276	mg/l	
AC06297	LM63	Little Miami Watershed	63	8/31/2012	10:50	COD	COD	39	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06297	LM63	Little Miami Watershed	63	8/31/2012	10:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	829	uS/cm	
AC06297	LM63	Little Miami Watershed	63	8/31/2012	10:50	TEMP_FLD	Temperature (Field) Celsius	21.82	Deg C	
AC06297	LM63	Little Miami Watershed	63	8/31/2012	10:50	PH_FLD	pH (Field)	7.64	S.U.	
AC06297	LM63	Little Miami Watershed	63	8/31/2012	10:50	DO_FLD	Dissolved Oxygen (field) mg/L	6.17	mg/l	
AC06297	LM63	Little Miami Watershed	63	8/31/2012	10:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	883	uS/cm	
AC06297	LM63	Little Miami Watershed	63	8/31/2012	10:50	NH3	Ammonia as N	0	mg/L	0.5
AC06297	LM63	Little Miami Watershed	63	8/31/2012	10:50	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC06297	LM63	Little Miami Watershed	63	8/31/2012	10:50	TKN	Total Kjeldahl Nitrogen	0.6120	mg/L	0.5
AC06297	LM63	Little Miami Watershed	63	8/31/2012	10:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06297	LM63	Little Miami Watershed	63	8/31/2012	10:50	NO2	Nitrite as N	0.0073	mg/l	0.005
AC06297	LM63	Little Miami Watershed	63	8/31/2012	10:50	NO3	Nitrate as N (calculated)	AW	mg/l	
AC06297	LM63	Little Miami Watershed	63	8/31/2012	10:50	CHLOROPHYLL	Chlorophyll	18.7	mg/m3	1.00
AC06298	LM65	Little Miami Watershed	65	8/31/2012	11:15	MF_CF	Fecal Coliform, Membrane Filter	340	CFU/100mL	
AC06298	LM65	Little Miami Watershed	65	8/31/2012	11:15	E-COLI	E.coli (Colilert)	194	MPN	
AC06298	LM65	Little Miami Watershed	65	8/31/2012	11:15	TDS	Total Dissolved Solids	670	mg/L	
AC06298	LM65	Little Miami Watershed	65	8/31/2012	11:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06298	LM65	Little Miami Watershed	65	8/31/2012	11:15	SO4	Sulfate	144	mg/L	25.0
AC06298	LM65	Little Miami Watershed	65	8/31/2012	11:15	CL	Chloride	278	mg/L	5.0
AC06298	LM65	Little Miami Watershed	65	8/31/2012	11:15	TSS	Tot. Suspended Solids	10	mg/L	2
AC06298	LM65	Little Miami Watershed	65	8/31/2012	11:15	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC06298	LM65	Little Miami Watershed	65	8/31/2012	11:15	HARD	Hardness as CaCO3	366	mg/l	
AC06298	LM65	Little Miami Watershed	65	8/31/2012	11:15	COD	COD	37	mg/L	
AC06298	LM65	Little Miami Watershed	65	8/31/2012	11:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	547	uS/cm	
AC06298	LM65	Little Miami Watershed	65	8/31/2012	11:15	TEMP_FLD	Temperature (Field) Celsius	21.87	Deg C	
AC06298	LM65	Little Miami Watershed	65	8/31/2012	11:15	PH_FLD	pH (Field)	7.40	S.U.	
AC06298	LM65	Little Miami Watershed	65	8/31/2012	11:15	DO_FLD	Dissolved Oxygen (field) mg/L	2.40	mg/l	
AC06298	LM65	Little Miami Watershed	65	8/31/2012	11:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	583	uS/cm	
AC06298	LM65	Little Miami Watershed	65	8/31/2012	11:15	NH3	Ammonia as N	0	mg/L	0.5
AC06298	LM65	Little Miami Watershed	65	8/31/2012	11:15	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC06298	LM65	Little Miami Watershed	65	8/31/2012	11:15	TKN	Total Kjeldahl Nitrogen	0.7501	mg/L	0.5
AC06298	LM65	Little Miami Watershed	65	8/31/2012	11:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06298	LM65	Little Miami Watershed	65	8/31/2012	11:15	NO2	Nitrite as N	0.0032	mg/l	0.005
AC06298	LM65	Little Miami Watershed	65	8/31/2012	11:15	NO3	Nitrate as N (calculated)	AW	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06298	LM65	Little Miami Watershed	65	8/31/2012	11:15	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC06299	LM64	Little Miami Watershed	64	8/31/2012	11:50	MF_CF	Fecal Coliform, Membrane Filter	350	CFU/100mL	
AC06299	LM64	Little Miami Watershed	64	8/31/2012	11:50	E-COLI	E.coli (Colilert)	435	MPN	
AC06299	LM64	Little Miami Watershed	64	8/31/2012	11:50	TDS	Total Dissolved Solids	330	mg/L	
AC06299	LM64	Little Miami Watershed	64	8/31/2012	11:50	BOD	Biochemical Oxygen Demand	8	mg/L	2
AC06299	LM64	Little Miami Watershed	64	8/31/2012	11:50	SO4	Sulfate	59.8	mg/L	12.5
AC06299	LM64	Little Miami Watershed	64	8/31/2012	11:50	CL	Chloride	38.9	mg/L	1.00
AC06299	LM64	Little Miami Watershed	64	8/31/2012	11:50	TSS	Tot. Suspended Solids	66	mg/L	2
AC06299	LM64	Little Miami Watershed	64	8/31/2012	11:50	SSC	Suspended Sediment Concentration	30.2	mg/L	5.0
AC06299	LM64	Little Miami Watershed	64	8/31/2012	11:50	HARD	Hardness as CaCO3	278	mg/l	
AC06299	LM64	Little Miami Watershed	64	8/31/2012	11:50	COD	COD	94	mg/L	
AC06299	LM64	Little Miami Watershed	64	8/31/2012	11:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1100	uS/cm	
AC06299	LM64	Little Miami Watershed	64	8/31/2012	11:50	TEMP_FLD	Temperature (Field) Celsius	20.66	Deg C	
AC06299	LM64	Little Miami Watershed	64	8/31/2012	11:50	PH_FLD	pH (Field)	7.68	S.U.	
AC06299	LM64	Little Miami Watershed	64	8/31/2012	11:50	DO_FLD	Dissolved Oxygen (field) mg/L	3.50	mg/l	
AC06299	LM64	Little Miami Watershed	64	8/31/2012	11:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	1200	uS/cm	
AC06299	LM64	Little Miami Watershed	64	8/31/2012	11:50	NH3	Ammonia as N	0	mg/L	0.5
AC06299	LM64	Little Miami Watershed	64	8/31/2012	11:50	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC06299	LM64	Little Miami Watershed	64	8/31/2012	11:50	TKN	Total Kjeldahl Nitrogen	1.102	mg/L	0.5
AC06299	LM64	Little Miami Watershed	64	8/31/2012	11:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06299	LM64	Little Miami Watershed	64	8/31/2012	11:50	NO2	Nitrite as N	0.0033	mg/l	0.005
AC06299	LM64	Little Miami Watershed	64	8/31/2012	11:50	NO3	Nitrate as N (calculated)	AW	mg/l	
AC06299	LM64	Little Miami Watershed	64	8/31/2012	11:50	CHLOROPHYLL	Chlorophyll	10.7	mg/m3	1.00
AC06377	LM01	Little Miami Watershed	1	9/4/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	833	CFU/100mL	
AC06377	LM01	Little Miami Watershed	1	9/4/2012	11:00	E-COLI	E.coli (Colilert)	687	MPN	
AC06377	LM01	Little Miami Watershed	1	9/4/2012	11:00	TDS	Total Dissolved Solids	410	mg/L	
AC06377	LM01	Little Miami Watershed	1	9/4/2012	11:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06377	LM01	Little Miami Watershed	1	9/4/2012	11:00	SO4	Sulfate	48.0	mg/L	12.5
AC06377	LM01	Little Miami Watershed	1	9/4/2012	11:00	CL	Chloride	134	mg/L	2.0
AC06377	LM01	Little Miami Watershed	1	9/4/2012	11:00	TSS	Tot. Suspended Solids	20	mg/L	2
AC06377	LM01	Little Miami Watershed	1	9/4/2012	11:00	SSC	Suspended Sediment Concentration	16.0	mg/L	5.0
AC06377	LM01	Little Miami Watershed	1	9/4/2012	11:00	HARD	Hardness as CaCO3	255	mg/l	
AC06377	LM01	Little Miami Watershed	1	9/4/2012	11:00	COD	COD	18	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06377	LM01	Little Miami Watershed	1	9/4/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	806	uS/cm	
AC06377	LM01	Little Miami Watershed	1	9/4/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	24.81	Deg C	
AC06377	LM01	Little Miami Watershed	1	9/4/2012	11:00	PH_FLD	pH (Field)	7.97	S.U.	
AC06377	LM01	Little Miami Watershed	1	9/4/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	6.32	mg/l	
AC06377	LM01	Little Miami Watershed	1	9/4/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	809	uS/cm	
AC06377	LM01	Little Miami Watershed	1	9/4/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC06377	LM01	Little Miami Watershed	1	9/4/2012	11:00	NO3NO2	Nitrate + Nitrite	2.19	mg/L	0.5
AC06377	LM01	Little Miami Watershed	1	9/4/2012	11:00	TKN	Total Kjeldahl Nitrogen	0.8203	mg/L	0.5
AC06377	LM01	Little Miami Watershed	1	9/4/2012	11:00	TKP	Total Kjeldahl Phosphorus	0.6024	mg/L	0.5
AC06377	LM01	Little Miami Watershed	1	9/4/2012	11:00	NO2	Nitrite as N	0.0262	mg/l	0.005
AC06377	LM01	Little Miami Watershed	1	9/4/2012	11:00	NO3	Nitrate as N (calculated)	2.1638	mg/l	
AC06377	LM01	Little Miami Watershed	1	9/4/2012	11:00	CHLOROPHYLL	Chlorophyll	11.3	mg/m3	1.00
AC06378	LM03	Little Miami Watershed	3	9/4/2012	11:35	MF_CF	Fecal Coliform, Membrane Filter	1400	CFU/100mL	
AC06378	LM03	Little Miami Watershed	3	9/4/2012	11:35	E-COLI	E.coli (Colilert)	866	MPN	
AC06378	LM03	Little Miami Watershed	3	9/4/2012	11:35	TDS	Total Dissolved Solids	420	mg/L	
AC06378	LM03	Little Miami Watershed	3	9/4/2012	11:35	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06378	LM03	Little Miami Watershed	3	9/4/2012	11:35	SO4	Sulfate	38.8	mg/L	12.5
AC06378	LM03	Little Miami Watershed	3	9/4/2012	11:35	CL	Chloride	101	mg/L	1.00
AC06378	LM03	Little Miami Watershed	3	9/4/2012	11:35	TSS	Tot. Suspended Solids	24	mg/L	2
AC06378	LM03	Little Miami Watershed	3	9/4/2012	11:35	SSC	Suspended Sediment Concentration	18.8	mg/L	5.0
AC06378	LM03	Little Miami Watershed	3	9/4/2012	11:35	HARD	Hardness as CaCO3	224	mg/l	
AC06378	LM03	Little Miami Watershed	3	9/4/2012	11:35	COD	COD	15	mg/L	
AC06378	LM03	Little Miami Watershed	3	9/4/2012	11:35	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	700	uS/cm	
AC06378	LM03	Little Miami Watershed	3	9/4/2012	11:35	TEMP_FLD	Temperature (Field) Celsius	24.87	Deg C	
AC06378	LM03	Little Miami Watershed	3	9/4/2012	11:35	PH_FLD	pH (Field)	7.88	S.U.	
AC06378	LM03	Little Miami Watershed	3	9/4/2012	11:35	DO_FLD	Dissolved Oxygen (field) mg/L	6.71	mg/l	
AC06378	LM03	Little Miami Watershed	3	9/4/2012	11:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	702	uS/cm	
AC06378	LM03	Little Miami Watershed	3	9/4/2012	11:35	NH3	Ammonia as N	0	mg/L	0.5
AC06378	LM03	Little Miami Watershed	3	9/4/2012	11:35	NO3NO2	Nitrate + Nitrite	1.33	mg/L	0.5
AC06378	LM03	Little Miami Watershed	3	9/4/2012	11:35	TKN	Total Kjeldahl Nitrogen	0.9311	mg/L	0.5
AC06378	LM03	Little Miami Watershed	3	9/4/2012	11:35	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06378	LM03	Little Miami Watershed	3	9/4/2012	11:35	NO2	Nitrite as N	0.0223	mg/l	0.005
AC06378	LM03	Little Miami Watershed	3	9/4/2012	11:35	NO3	Nitrate as N (calculated)	1.3077	mg/l	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06378	LM03	Little Miami Watershed	3	9/4/2012	11:35	CHLOROPHYLL	Chlorophyll	10.2	mg/m3	1.00
AC06379	LM04	Little Miami Watershed	4	9/4/2012	11:50	MF_CF	Fecal Coliform, Membrane Filter	390	CFU/100mL	
AC06379	LM04	Little Miami Watershed	4	9/4/2012	11:50	E-COLI	E.coli (Colilert)	345	MPN	
AC06379	LM04	Little Miami Watershed	4	9/4/2012	11:50	TDS	Total Dissolved Solids	490	mg/L	
AC06379	LM04	Little Miami Watershed	4	9/4/2012	11:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06379	LM04	Little Miami Watershed	4	9/4/2012	11:50	SO4	Sulfate	63.5	mg/L	12.5
AC06379	LM04	Little Miami Watershed	4	9/4/2012	11:50	CL	Chloride	128	mg/L	2.0
AC06379	LM04	Little Miami Watershed	4	9/4/2012	11:50	TSS	Tot. Suspended Solids	20	mg/L	2
AC06379	LM04	Little Miami Watershed	4	9/4/2012	11:50	SSC	Suspended Sediment Concentration	12.0	mg/L	5.0
AC06379	LM04	Little Miami Watershed	4	9/4/2012	11:50	HARD	Hardness as CaCO3	246	mg/l	
AC06379	LM04	Little Miami Watershed	4	9/4/2012	11:50	COD	COD	46	mg/L	
AC06379	LM04	Little Miami Watershed	4	9/4/2012	11:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	812	uS/cm	
AC06379	LM04	Little Miami Watershed	4	9/4/2012	11:50	TEMP_FLD	Temperature (Field) Celsius	24.35	Deg C	
AC06379	LM04	Little Miami Watershed	4	9/4/2012	11:50	PH_FLD	pH (Field)	7.35	S.U.	
AC06379	LM04	Little Miami Watershed	4	9/4/2012	11:50	DO_FLD	Dissolved Oxygen (field) mg/L	5.62	mg/l	
AC06379	LM04	Little Miami Watershed	4	9/4/2012	11:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	822	uS/cm	
AC06379	LM04	Little Miami Watershed	4	9/4/2012	11:50	NH3	Ammonia as N	0	mg/L	0.5
AC06379	LM04	Little Miami Watershed	4	9/4/2012	11:50	NO3NO2	Nitrate + Nitrite	12.0	mg/L	0.5
AC06379	LM04	Little Miami Watershed	4	9/4/2012	11:50	TKN	Total Kjeldahl Nitrogen	1.379	mg/L	0.5
AC06379	LM04	Little Miami Watershed	4	9/4/2012	11:50	TKP	Total Kjeldahl Phosphorus	1.922	mg/L	0.5
AC06379	LM04	Little Miami Watershed	4	9/4/2012	11:50	NO2	Nitrite as N	0.0232	mg/l	0.005
AC06379	LM04	Little Miami Watershed	4	9/4/2012	11:50	NO3	Nitrate as N (calculated)	11.9768	mg/l	
AC06379	LM04	Little Miami Watershed	4	9/4/2012	11:50	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	MF_CF	Fecal Coliform, Membrane Filter	3600	CFU/100mL	
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	E-COLI	E.coli (Colilert)	2420	MPN	
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	TDS	Total Dissolved Solids	210	mg/L	
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	SO4	Sulfate	21.6	mg/L	12.5
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	CL	Chloride	21.3	mg/L	1.00
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	TSS	Tot. Suspended Solids	112	mg/L	2
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	SSC	Suspended Sediment Concentration	245	mg/L	5.0
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	HARD	Hardness as CaCO3	150	mg/l	
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	COD	COD	41	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	302	uS/cm	
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	TEMP_FLD	Temperature (Field) Celsius	23.76	Deg C	
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	PH_FLD	pH (Field)	7.35	S.U.	
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	DO_FLD	Dissolved Oxygen (field) mg/L	5.53	mg/l	
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	309	uS/cm	
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	\$ICP	Aluminum	1.64	mg/L	0.348
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	\$ICP	Antimony	0.00	mg/L	0.006
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	\$ICP	Arsenic	0.00	mg/L	0.012
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	\$ICP	Barium	0.0348	mg/L	0.003
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	\$ICP	Calcium	36.3	mg/L	0.066
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	\$ICP	Chromium	0.00	mg/L	0.006
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	\$ICP	Copper	0.00899	mg/L	0.006
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	\$ICP	Iron	2.60	mg/L	0.018
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	\$ICP	Lead	0.00	mg/L	0.006
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	\$ICP	Magnesium	7.64	mg/L	0.021
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	\$ICP	Manganese	0.158	mg/L	0.009
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	\$ICP	Nickel	0.00487	mg/L	0.003
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	\$ICP	Selenium	0.0124	mg/L	0.009
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	\$ICP	Silver	0.00	mg/L	0.003
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	\$ICP	Strontium	0.125	mg/L	0.009
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	\$ICP	Thallium	0.0147	mg/L	0.012
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	\$ICP	Tin	0.00	mg/L	0.006
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	\$ICP	Zinc	0.0142	mg/L	0.006
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	PB_FU	Lead by Furnace	2.12	ug/L	1.0
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	AS_FU	Arsenic by Furnace	1.88	ug/L	1.0
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	CU_FU	Copper by Furnace	5.8	ug/L	1
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	NH3	Ammonia as N	0	mg/L	0.5
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	NO3NO2	Nitrate + Nitrite	0.812	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	TKN	Total Kjeldahl Nitrogen	1.145	mg/L	0.5
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	TKP	Total Kjeldahl Phosphorus	0.5165	mg/L	0.5
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	NO2	Nitrite as N	0.0145	mg/l	0.005
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	NO3	Nitrate as N (calculated)	0.7975	mg/l	
AC06380	LM36	Little Miami Watershed	36	9/4/2012	12:15	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC06381	LM11	Little Miami Watershed	11	9/4/2012	12:30	MF_CF	Fecal Coliform, Membrane Filter	3700	CFU/100mL	
AC06381	LM11	Little Miami Watershed	11	9/4/2012	12:30	E-COLI	E.coli (Colilert)	2420	MPN	
AC06381	LM11	Little Miami Watershed	11	9/4/2012	12:30	TDS	Total Dissolved Solids	260	mg/L	
AC06381	LM11	Little Miami Watershed	11	9/4/2012	12:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06381	LM11	Little Miami Watershed	11	9/4/2012	12:30	SO4	Sulfate	28.2	mg/L	12.5
AC06381	LM11	Little Miami Watershed	11	9/4/2012	12:30	CL	Chloride	46.5	mg/L	1.00
AC06381	LM11	Little Miami Watershed	11	9/4/2012	12:30	TSS	Tot. Suspended Solids	40	mg/L	2
AC06381	LM11	Little Miami Watershed	11	9/4/2012	12:30	SSC	Suspended Sediment Concentration	48.8	mg/L	5.0
AC06381	LM11	Little Miami Watershed	11	9/4/2012	12:30	HARD	Hardness as CaCO3	162	mg/l	
AC06381	LM11	Little Miami Watershed	11	9/4/2012	12:30	COD	COD	33	mg/L	
AC06381	LM11	Little Miami Watershed	11	9/4/2012	12:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	410	uS/cm	
AC06381	LM11	Little Miami Watershed	11	9/4/2012	12:30	TEMP_FLD	Temperature (Field) Celsius	24.33	Deg C	
AC06381	LM11	Little Miami Watershed	11	9/4/2012	12:30	PH_FLD	pH (Field)	7.5	S.U.	
AC06381	LM11	Little Miami Watershed	11	9/4/2012	12:30	DO_FLD	Dissolved Oxygen (field) mg/L	6.35	mg/l	
AC06381	LM11	Little Miami Watershed	11	9/4/2012	12:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	415	uS/cm	
AC06381	LM11	Little Miami Watershed	11	9/4/2012	12:30	NH3	Ammonia as N	0	mg/L	0.5
AC06381	LM11	Little Miami Watershed	11	9/4/2012	12:30	NO3NO2	Nitrate + Nitrite	1.46	mg/L	0.5
AC06381	LM11	Little Miami Watershed	11	9/4/2012	12:30	TKN	Total Kjeldahl Nitrogen	0.9140	mg/L	0.5
AC06381	LM11	Little Miami Watershed	11	9/4/2012	12:30	TKP	Total Kjeldahl Phosphorus	0.5037	mg/L	0.5
AC06381	LM11	Little Miami Watershed	11	9/4/2012	12:30	NO2	Nitrite as N	0.0191	mg/l	0.005
AC06381	LM11	Little Miami Watershed	11	9/4/2012	12:30	NO3	Nitrate as N (calculated)	1.4409	mg/l	
AC06381	LM11	Little Miami Watershed	11	9/4/2012	12:30	CHLOROPHYLL	Chlorophyll	AH	mg/m3	1.00
AC06382	LM15	Little Miami Watershed	15	9/4/2012	13:00	MF_CF	Fecal Coliform, Membrane Filter	3400	CFU/100mL	
AC06382	LM15	Little Miami Watershed	15	9/4/2012	13:00	E-COLI	E.coli (Colilert)	2420	MPN	
AC06382	LM15	Little Miami Watershed	15	9/4/2012	13:00	TDS	Total Dissolved Solids	200	mg/L	
AC06382	LM15	Little Miami Watershed	15	9/4/2012	13:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06382	LM15	Little Miami Watershed	15	9/4/2012	13:00	SO4	Sulfate	23.3	mg/L	12.5
AC06382	LM15	Little Miami Watershed	15	9/4/2012	13:00	CL	Chloride	34.3	mg/L	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06382	LM15	Little Miami Watershed	15	9/4/2012	13:00	TSS	Tot. Suspended Solids	54	mg/L	2
AC06382	LM15	Little Miami Watershed	15	9/4/2012	13:00	SSC	Suspended Sediment Concentration	74.8	mg/L	5.0
AC06382	LM15	Little Miami Watershed	15	9/4/2012	13:00	HARD	Hardness as CaCO3	146	mg/l	
AC06382	LM15	Little Miami Watershed	15	9/4/2012	13:00	COD	COD	49	mg/L	
AC06382	LM15	Little Miami Watershed	15	9/4/2012	13:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	341	uS/cm	
AC06382	LM15	Little Miami Watershed	15	9/4/2012	13:00	TEMP_FLD	Temperature (Field) Celsius	25.02	Deg C	
AC06382	LM15	Little Miami Watershed	15	9/4/2012	13:00	PH_FLD	pH (Field)	7.5	S.U.	
AC06382	LM15	Little Miami Watershed	15	9/4/2012	13:00	DO_FLD	Dissolved Oxygen (field) mg/L	6.80	mg/l	
AC06382	LM15	Little Miami Watershed	15	9/4/2012	13:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	341	uS/cm	
AC06382	LM15	Little Miami Watershed	15	9/4/2012	13:00	NH3	Ammonia as N	0	mg/L	0.5
AC06382	LM15	Little Miami Watershed	15	9/4/2012	13:00	NO3NO2	Nitrate + Nitrite	0.8375	mg/L	0.5
AC06382	LM15	Little Miami Watershed	15	9/4/2012	13:00	TKN	Total Kjeldahl Nitrogen	1.100	mg/L	0.5
AC06382	LM15	Little Miami Watershed	15	9/4/2012	13:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06382	LM15	Little Miami Watershed	15	9/4/2012	13:00	NO2	Nitrite as N	0.0156	mg/l	0.005
AC06382	LM15	Little Miami Watershed	15	9/4/2012	13:00	NO3	Nitrate as N (calculated)	10.7844	mg/l	
AC06382	LM15	Little Miami Watershed	15	9/4/2012	13:00	CHLOROPHYLL	Chlorophyll	4.97	mg/m3	1.00
AC06383	LM14	Little Miami Watershed	14	9/4/2012	13:20	MF_CF	Fecal Coliform, Membrane Filter	3500	CFU/100mL	
AC06383	LM14	Little Miami Watershed	14	9/4/2012	13:20	E-COLI	E.coli (Colilert)	2420	MPN	
AC06383	LM14	Little Miami Watershed	14	9/4/2012	13:20	TDS	Total Dissolved Solids	220	mg/L	
AC06383	LM14	Little Miami Watershed	14	9/4/2012	13:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06383	LM14	Little Miami Watershed	14	9/4/2012	13:20	SO4	Sulfate	24.2	mg/L	12.5
AC06383	LM14	Little Miami Watershed	14	9/4/2012	13:20	CL	Chloride	36.0	mg/L	1.00
AC06383	LM14	Little Miami Watershed	14	9/4/2012	13:20	TSS	Tot. Suspended Solids	44	mg/L	2
AC06383	LM14	Little Miami Watershed	14	9/4/2012	13:20	SSC	Suspended Sediment Concentration	28.9	mg/L	5.0
AC06383	LM14	Little Miami Watershed	14	9/4/2012	13:20	HARD	Hardness as CaCO3	150	mg/l	
AC06383	LM14	Little Miami Watershed	14	9/4/2012	13:20	COD	COD	44	mg/L	
AC06383	LM14	Little Miami Watershed	14	9/4/2012	13:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	341	uS/cm	
AC06383	LM14	Little Miami Watershed	14	9/4/2012	13:20	TEMP_FLD	Temperature (Field) Celsius	24.32	Deg C	
AC06383	LM14	Little Miami Watershed	14	9/4/2012	13:20	PH_FLD	pH (Field)	7.52	S.U.	
AC06383	LM14	Little Miami Watershed	14	9/4/2012	13:20	DO_FLD	Dissolved Oxygen (field) mg/L	6.44	mg/l	
AC06383	LM14	Little Miami Watershed	14	9/4/2012	13:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	347	uS/cm	
AC06383	LM14	Little Miami Watershed	14	9/4/2012	13:20	NH3	Ammonia as N	0	mg/L	0.5
AC06383	LM14	Little Miami Watershed	14	9/4/2012	13:20	NO3NO2	Nitrate + Nitrite	0.831	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06383	LM14	Little Miami Watershed	14	9/4/2012	13:20	TKN	Total Kjeldahl Nitrogen	1.531	mg/L	0.5
AC06383	LM14	Little Miami Watershed	14	9/4/2012	13:20	TKP	Total Kjeldahl Phosphorus	0.6456	mg/L	0.5
AC06383	LM14	Little Miami Watershed	14	9/4/2012	13:20	NO2	Nitrite as N	0.0154	mg/l	0.005
AC06383	LM14	Little Miami Watershed	14	9/4/2012	13:20	NO3	Nitrate as N (calculated)	0.8156	mg/l	
AC06383	LM14	Little Miami Watershed	14	9/4/2012	13:20	CHLOROPHYLL	Chlorophyll	320	mg/m3	1.00
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	MF_CF	Fecal Coliform, Membrane Filter	270	CFU/100mL	
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	E-COLI	E.coli (Colilert)	411	MPN	
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	TDS	Total Dissolved Solids	230	mg/L	
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	SO4	Sulfate	21.2	mg/L	5.0
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	CL	Chloride	16.0	mg/L	1.00
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	TSS	Tot. Suspended Solids	16	mg/L	2
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	SSC	Suspended Sediment Concentration	8.8	mg/L	5.0
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	HARD	Hardness as CaCO3	162	mg/l	
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	COD	COD	35	mg/L	
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	236	uS/cm	
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	TEMP_FLD	Temperature (Field) Celsius	24.24	Deg C	
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	PH_FLD	pH (Field)	7.61	S.U.	
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	DO_FLD	Dissolved Oxygen (field) mg/L	6.26	mg/l	
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	239	uS/cm	
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	\$ICP	Aluminum	0.00	mg/L	0.348
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	\$ICP	Antimony	0.00	mg/L	0.006
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	\$ICP	Arsenic	0.00	mg/L	0.012
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	\$ICP	Barium	0.0275	mg/L	0.003
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	\$ICP	Calcium	36.1	mg/L	0.066
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	\$ICP	Chromium	0.00	mg/L	0.006
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	\$ICP	Copper	0.00	mg/L	0.006
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	\$ICP	Iron	0.262	mg/L	0.018
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	\$ICP	Lead	0.00	mg/L	0.006
AC06455	LM26	Little Miami Watershed	26	9/5/2012	08:45	\$ICP	Magnesium	8.52	mg/L	0.021

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06455	LM26	Little Miami Watershed	26	9/5/2012 08:45	\$ICP		Manganese	0.0754	mg/L	0.009
AC06455	LM26	Little Miami Watershed	26	9/5/2012 08:45	\$ICP		Nickel	0.00	mg/L	0.003
AC06455	LM26	Little Miami Watershed	26	9/5/2012 08:45	\$ICP		Selenium	0.0147	mg/L	0.009
AC06455	LM26	Little Miami Watershed	26	9/5/2012 08:45	\$ICP		Silver	0.00	mg/L	0.003
AC06455	LM26	Little Miami Watershed	26	9/5/2012 08:45	\$ICP		Strontium	0.103	mg/L	0.009
AC06455	LM26	Little Miami Watershed	26	9/5/2012 08:45	\$ICP		Thallium	0.0173	mg/L	0.012
AC06455	LM26	Little Miami Watershed	26	9/5/2012 08:45	\$ICP		Tin	0.00	mg/L	0.006
AC06455	LM26	Little Miami Watershed	26	9/5/2012 08:45	\$ICP		Vanadium	0.00	mg/L	0.018
AC06455	LM26	Little Miami Watershed	26	9/5/2012 08:45	\$ICP		Zinc	0.00884	mg/L	0.006
AC06455	LM26	Little Miami Watershed	26	9/5/2012 08:45	PB_FU		Lead by Furnace	0.22	ug/L	1.0
AC06455	LM26	Little Miami Watershed	26	9/5/2012 08:45	AS_FU		Arsenic by Furnace	1.64	ug/L	1.0
AC06455	LM26	Little Miami Watershed	26	9/5/2012 08:45	CD_FU		Cadmium by Furnace	AA	ug/L	1
AC06455	LM26	Little Miami Watershed	26	9/5/2012 08:45	CU_FU		Copper by Furnace	1.9	ug/L	1
AC06455	LM26	Little Miami Watershed	26	9/5/2012 08:45	NH3		Ammonia as N	0	mg/L	0.5
AC06455	LM26	Little Miami Watershed	26	9/5/2012 08:45	NO3NO2		Nitrate + Nitrite	0	mg/L	0.5
AC06455	LM26	Little Miami Watershed	26	9/5/2012 08:45	TKN		Total Kjeldahl Nitrogen	0.6839	mg/L	0.5
AC06455	LM26	Little Miami Watershed	26	9/5/2012 08:45	TKP		Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06455	LM26	Little Miami Watershed	26	9/5/2012 08:45	NO2		Nitrite as N	0.0058	mg/l	0.005
AC06455	LM26	Little Miami Watershed	26	9/5/2012 08:45	NO3		Nitrate as N (calculated)	AW	mg/l	
AC06455	LM26	Little Miami Watershed	26	9/5/2012 08:45	CHLOROPHYLL		Chlorophyll	1.07	mg/m3	1.00
AC06456	LM27	Little Miami Watershed	27	9/5/2012 09:20	MF_CF		Fecal Coliform, Membrane Filter	340	CFU/100mL	
AC06456	LM27	Little Miami Watershed	27	9/5/2012 09:20	E-COLI		E.coli (Colilert)	261	MPN	
AC06456	LM27	Little Miami Watershed	27	9/5/2012 09:20	TDS		Total Dissolved Solids	200	mg/L	
AC06456	LM27	Little Miami Watershed	27	9/5/2012 09:20	BOD		Biochemical Oxygen Demand	2	mg/L	2
AC06456	LM27	Little Miami Watershed	27	9/5/2012 09:20	SO4		Sulfate	22.6	mg/L	5.0
AC06456	LM27	Little Miami Watershed	27	9/5/2012 09:20	CL		Chloride	15.5	mg/L	1.00
AC06456	LM27	Little Miami Watershed	27	9/5/2012 09:20	TSS		Tot. Suspended Solids	22	mg/L	2
AC06456	LM27	Little Miami Watershed	27	9/5/2012 09:20	SSC		Suspended Sediment Concentration	7.4	mg/L	5.0
AC06456	LM27	Little Miami Watershed	27	9/5/2012 09:20	HARD		Hardness as CaCO3	166	mg/l	
AC06456	LM27	Little Miami Watershed	27	9/5/2012 09:20	COD		COD	38	mg/L	
AC06456	LM27	Little Miami Watershed	27	9/5/2012 09:20	CONDUCTIVITY-R		Relative Conductivity (uS/cm)	243	uS/cm	
AC06456	LM27	Little Miami Watershed	27	9/5/2012 09:20	TEMP_FLD		Temperature (Field) Celsius	24.36	Deg C	
AC06456	LM27	Little Miami Watershed	27	9/5/2012 09:20	PH_FLD		pH (Field)	7.36	S.U.	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	DO_FLD	Dissolved Oxygen (field) mg/L	7.06	mg/l	
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	246	uS/cm	
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	\$ICP	Aluminum	0.00	mg/L	0.348
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	\$ICP	Antimony	0.00	mg/L	0.006
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	\$ICP	Arsenic	0.00	mg/L	0.012
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	\$ICP	Barium	0.0284	mg/L	0.003
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	\$ICP	Calcium	37.6	mg/L	0.066
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	\$ICP	Chromium	0.00	mg/L	0.006
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	\$ICP	Copper	0.00618	mg/L	0.006
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	\$ICP	Iron	0.306	mg/L	0.018
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	\$ICP	Lead	0.00	mg/L	0.006
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	\$ICP	Magnesium	8.55	mg/L	0.021
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	\$ICP	Manganese	0.0646	mg/L	0.009
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	\$ICP	Nickel	0.00	mg/L	0.003
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	\$ICP	Selenium	0.00905	mg/L	0.009
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	\$ICP	Silver	0.00	mg/L	0.003
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	\$ICP	Strontium	0.112	mg/L	0.009
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	\$ICP	Thallium	0.0165	mg/L	0.012
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	\$ICP	Tin	0.00	mg/L	0.006
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	\$ICP	Zinc	0.0119	mg/L	0.006
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	PB_FU	Lead by Furnace	0.49	ug/L	1.0
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	AS_FU	Arsenic by Furnace	1.50	ug/L	1.0
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	CU_FU	Copper by Furnace	2.6	ug/L	1
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	NH3	Ammonia as N	0	mg/L	0.5
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	NO3NO2	Nitrate + Nitrite	2.48	mg/L	0.5
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	TKN	Total Kjeldahl Nitrogen	0.5312	mg/L	0.5
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	NO2	Nitrite as N	0.0074	mg/l	0.005

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	NO3	Nitrate as N (calculated)	2.4726	mg/l	
AC06456	LM27	Little Miami Watershed	27	9/5/2012	09:20	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	MF_CF	Fecal Coliform, Membrane Filter	520	CFU/100mL	
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	E-COLI	E.coli (Colilert)	461	MPN	
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	TDS	Total Dissolved Solids	150	mg/L	
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	SO4	Sulfate	21.6	mg/L	5.0
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	CL	Chloride	16.9	mg/L	1.00
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	TSS	Tot. Suspended Solids	24	mg/L	2
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	SSC	Suspended Sediment Concentration	39.9	mg/L	5.0
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	HARD	Hardness as CaCO3	170	mg/l	
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	COD	COD	28	mg/L	
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	260	uS/cm	
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	TEMP_FLD	Temperature (Field) Celsius	24.38	Deg C	
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	PH_FLD	pH (Field)	6.84	S.U.	
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	DO_FLD	Dissolved Oxygen (field) mg/L	5.76	mg/l	
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	264	uS/cm	
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	\$ICP	Aluminum	0.370	mg/L	0.348
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	\$ICP	Antimony	0.00	mg/L	0.006
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	\$ICP	Arsenic	0.00	mg/L	0.012
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	\$ICP	Barium	0.0301	mg/L	0.003
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	\$ICP	Calcium	39.8	mg/L	0.066
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	\$ICP	Chromium	0.00	mg/L	0.006
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	\$ICP	Copper	0.00	mg/L	0.006
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	\$ICP	Iron	0.681	mg/L	0.018
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	\$ICP	Lead	0.00	mg/L	0.006
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	\$ICP	Magnesium	9.02	mg/L	0.021
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	\$ICP	Manganese	0.0983	mg/L	0.009
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	\$ICP	Nickel	0.00	mg/L	0.003
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	\$ICP	Selenium	0.0124	mg/L	0.009



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	\$ICP	Silver	0.00	mg/L	0.003
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	\$ICP	Strontium	0.117	mg/L	0.009
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	\$ICP	Thallium	0.00	mg/L	0.012
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	\$ICP	Tin	0.00	mg/L	0.006
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	\$ICP	Zinc	0.00	mg/L	0.006
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	PB_FU	Lead by Furnace	0.62	ug/L	1.0
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	AS_FU	Arsenic by Furnace	1.66	ug/L	1.0
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	CU_FU	Copper by Furnace	2.8	ug/L	1
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	NH3	Ammonia as N	0	mg/L	0.5
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	TKN	Total Kjeldahl Nitrogen	0.5834	mg/L	0.5
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	NO2	Nitrite as N	0.0081	mg/l	0.005
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	NO3	Nitrate as N (calculated)	AW	mg/l	
AC06457	LM28	Little Miami Watershed	28	9/5/2012	09:40	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	933	CFU/100mL	
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	E-COLI	E.coli (Colilert)	1300	MPN	
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	TDS	Total Dissolved Solids	240	mg/L	
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	SO4	Sulfate	30.4	mg/L	5.0
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	CL	Chloride	24.4	mg/L	1.00
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	TSS	Tot. Suspended Solids	16	mg/L	2
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	SSC	Suspended Sediment Concentration	28.8	mg/L	5.0
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	HARD	Hardness as CaCO3	170	mg/l	
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	COD	COD	30	mg/L	
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	300	uS/cm	
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	24.65	Deg C	
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	PH_FLD	pH (Field)	7.40	S.U.	
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	5.97	mg/l	
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	302	uS/cm	
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	\$ICP	Aluminum	0.461	mg/L	0.348

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	\$ICP	Antimony	0.00	mg/L	0.006
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	\$ICP	Barium	0.0304	mg/L	0.003
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	\$ICP	Calcium	42.9	mg/L	0.066
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	\$ICP	Chromium	0.00	mg/L	0.006
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	\$ICP	Copper	0.00660	mg/L	0.006
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	\$ICP	Iron	0.761	mg/L	0.018
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	\$ICP	Lead	0.00	mg/L	0.006
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	\$ICP	Magnesium	9.31	mg/L	0.021
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	\$ICP	Manganese	0.119	mg/L	0.009
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	\$ICP	Nickel	0.00310	mg/L	0.003
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	\$ICP	Selenium	0.0119	mg/L	0.009
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	\$ICP	Silver	0.00	mg/L	0.003
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	\$ICP	Strontium	0.140	mg/L	0.009
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	\$ICP	Thallium	0.00	mg/L	0.012
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	\$ICP	Tin	0.00	mg/L	0.006
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	\$ICP	Zinc	0.00808	mg/L	0.006
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	PB_FU	Lead by Furnace	0.62	ug/L	1.0
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	AS_FU	Arsenic by Furnace	1.56	ug/L	1.0
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	CU_FU	Copper by Furnace	3.6	ug/L	1
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	NO3NO2	Nitrate + Nitrite	1.86	mg/L	0.5
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	TKN	Total Kjeldahl Nitrogen	0.8386	mg/L	0.5
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	NO2	Nitrite as N	0.0114	mg/l	0.005
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	NO3	Nitrate as N (calculated)	1.8486	mg/l	
AC06458	LM29	Little Miami Watershed	29	9/5/2012	10:00	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	MF_CF	Fecal Coliform, Membrane Filter	5800	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	E-COLI	E.coli (Colilert)	488	MPN	
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	TDS	Total Dissolved Solids	230	mg/L	
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	SO4	Sulfate	77.5	mg/L	25.0
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	CL	Chloride	21.0	mg/L	1.00
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	TSS	Tot. Suspended Solids	26	mg/L	2
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	SSC	Suspended Sediment Concentration	14.4	mg/L	5.0
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	HARD	Hardness as CaCO3	168	mg/l	
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	COD	COD	27	mg/L	
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	268	uS/cm	
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	TEMP_FLD	Temperature (Field) Celsius	24.43	Deg C	
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	PH_FLD	pH (Field)	7.33	S.U.	
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	DO_FLD	Dissolved Oxygen (field) mg/L	6.30	mg/l	
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	271	uS/cm	
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	\$ICP	Aluminum	0.406	mg/L	0.348
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	\$ICP	Antimony	0.00	mg/L	0.006
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	\$ICP	Arsenic	0.00	mg/L	0.012
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	\$ICP	Barium	0.0278	mg/L	0.003
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	\$ICP	Calcium	38.0	mg/L	0.066
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	\$ICP	Chromium	0.00	mg/L	0.006
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	\$ICP	Copper	0.00665	mg/L	0.006
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	\$ICP	Iron	0.650	mg/L	0.018
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	\$ICP	Lead	0.00	mg/L	0.006
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	\$ICP	Magnesium	7.97	mg/L	0.021
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	\$ICP	Manganese	0.0858	mg/L	0.009
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	\$ICP	Nickel	0.00	mg/L	0.003
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	\$ICP	Selenium	0.0179	mg/L	0.009
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	\$ICP	Silver	0.00	mg/L	0.003
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	\$ICP	Strontium	0.125	mg/L	0.009
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	\$ICP	Thallium	0.0144	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	\$ICP	Tin	0.00	mg/L	0.006
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	\$ICP	Zinc	0.0128	mg/L	0.006
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	PB_FU	Lead by Furnace	0.64	ug/L	1.0
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	AS_FU	Arsenic by Furnace	1.54	ug/L	1.0
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	CU_FU	Copper by Furnace	4.4	ug/L	1
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	NH3	Ammonia as N	0	mg/L	0.5
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	NO3NO2	Nitrate + Nitrite	3.60	mg/L	0.5
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	TKN	Total Kjeldahl Nitrogen	0.9419	mg/L	0.5
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	NO2	Nitrite as N	0.0125	mg/l	0.005
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	NO3	Nitrate as N (calculated)	3.5875	mg/l	
AC06459	LM30	Little Miami Watershed	30	9/5/2012	10:15	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	MF_CF	Fecal Coliform, Membrane Filter	410	CFU/100mL	
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	E-COLI	E.coli (Colilert)	488	MPN	
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	TDS	Total Dissolved Solids	170	mg/L	
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	SO4	Sulfate	28.9	mg/L	5.0
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	CL	Chloride	20.0	mg/L	1.00
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	TSS	Tot. Suspended Solids	34	mg/L	2
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	SSC	Suspended Sediment Concentration	108	mg/L	5.0
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	HARD	Hardness as CaCO3	170	mg/l	
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	COD	COD	25	mg/L	
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	265	uS/cm	
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	TEMP_FLD	Temperature (Field) Celsius	24.59	Deg C	
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	PH_FLD	pH (Field)	7.29	S.U.	
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	DO_FLD	Dissolved Oxygen (field) mg/L	6.47	mg/l	
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	267	uS/cm	
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	\$ICP	Aluminum	0.558	mg/L	0.348
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	\$ICP	Antimony	0.00	mg/L	0.006
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	\$ICP	Arsenic	0.00	mg/L	0.012
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	\$ICP	Barium	0.0307	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	\$ICP	Beryllium	0.00	mg/L	0.009
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	\$ICP	Cadmium	0.00	mg/L	0.012
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	\$ICP	Calcium	39.2	mg/L	0.066
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	\$ICP	Chromium	0.00	mg/L	0.006
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	\$ICP	Cobalt	0.00	mg/L	0.006
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	\$ICP	Copper	0.00	mg/L	0.006
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	\$ICP	Iron	1.02	mg/L	0.018
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	\$ICP	Lead	0.00	mg/L	0.006
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	\$ICP	Magnesium	7.61	mg/L	0.021
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	\$ICP	Manganese	0.118	mg/L	0.009
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	\$ICP	Nickel	0.00304	mg/L	0.003
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	\$ICP	Selenium	0.0131	mg/L	0.009
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	\$ICP	Silver	0.00	mg/L	0.003
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	\$ICP	Strontium	0.130	mg/L	0.009
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	\$ICP	Thallium	0.00	mg/L	0.012
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	\$ICP	Tin	0.00	mg/L	0.006
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	\$ICP	Vanadium	0.00	mg/L	0.018
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	\$ICP	Zinc	0.00	mg/L	0.006
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	PB_FU	Lead by Furnace	0.86	ug/L	1.0
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	AS_FU	Arsenic by Furnace	1.56	ug/L	1.0
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	CU_FU	Copper by Furnace	3.7	ug/L	1
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	NH3	Ammonia as N	0	mg/L	0.5
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	NO3NO2	Nitrate + Nitrite	0.816	mg/L	0.5
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	TKN	Total Kjeldahl Nitrogen	0.7914	mg/L	0.5
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	NO2	Nitrite as N	0.0120	mg/l	0.005
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	NO3	Nitrate as N (calculated)	0.8040	mg/l	
AC06460	LM31	Little Miami Watershed	31	9/5/2012	10:35	CHLOROPHYLL	Chlorophyll	2.37	mg/m3	1.00
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	MF_CF	Fecal Coliform, Membrane Filter	330	CFU/100mL	
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	E-COLI	E.coli (Colilert)	579	MPN	
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	TDS	Total Dissolved Solids	210	mg/L	
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	BOD	Biochemical Oxygen Demand	2	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	SO4	Sulfate	36.5	mg/L	5.0
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	CL	Chloride	29.8	mg/L	1.00
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	TSS	Tot. Suspended Solids	34	mg/L	2
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	SSC	Suspended Sediment Concentration	37.4	mg/L	5.0
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	HARD	Hardness as CaCO3	172	mg/l	
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	COD	COD	26	mg/L	
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	325	uS/cm	
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	TEMP_FLD	Temperature (Field) Celsius	24.06	Deg C	
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	PH_FLD	pH (Field)	7.48	S.U.	
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	DO_FLD	Dissolved Oxygen (field) mg/L	6.40	mg/l	
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	CONDUCTIVITY	Specific Conductivity (uS/cm)	331	uS/cm	
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	\$ICP	Aluminum	0.703	mg/L	0.348
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	\$ICP	Antimony	0.00	mg/L	0.006
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	\$ICP	Arsenic	0.00	mg/L	0.012
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	\$ICP	Barium	0.0326	mg/L	0.003
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	\$ICP	Beryllium	0.00	mg/L	0.009
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	\$ICP	Cadmium	0.00	mg/L	0.012
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	\$ICP	Calcium	45.8	mg/L	0.066
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	\$ICP	Chromium	0.00	mg/L	0.006
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	\$ICP	Cobalt	0.00	mg/L	0.006
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	\$ICP	Copper	0.00	mg/L	0.006
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	\$ICP	Iron	1.23	mg/L	0.018
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	\$ICP	Lead	0.00	mg/L	0.006
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	\$ICP	Magnesium	8.96	mg/L	0.021
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	\$ICP	Manganese	0.130	mg/L	0.009
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	\$ICP	Nickel	0.00	mg/L	0.003
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	\$ICP	Selenium	0.0159	mg/L	0.009
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	\$ICP	Silver	0.00	mg/L	0.003
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	\$ICP	Strontium	0.157	mg/L	0.009
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	\$ICP	Thallium	0.00	mg/L	0.012
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	\$ICP	Tin	0.00	mg/L	0.006
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	\$ICP	Vanadium	0.00	mg/L	0.018
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	\$ICP	Zinc	0.00944	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	PB_FU	Lead by Furnace	1.05	ug/L	1.0
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	AS_FU	Arsenic by Furnace	1.46	ug/L	1.0
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	CU_FU	Copper by Furnace	4.3	ug/L	1
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	NH3	Ammonia as N	0	mg/L	0.5
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	NO3NO2	Nitrate + Nitrite	1.41	mg/L	0.5
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	TKN	Total Kjeldahl Nitrogen	0.9982	mg/L	0.5
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	NO2	Nitrite as N	0.0106	mg/l	0.005
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	NO3	Nitrate as N (calculated)	1.3994	mg/l	
AC06461	LM32	Little Miami Watershed	32	9/5/2012	10:55	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	TSS	Tot. Suspended Solids	32	mg/L	2
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	COD	COD	56	mg/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	TDS	Total Dissolved Solids	250	mg/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	CBOD	Carbonaceous Biochemical Oxygen Demand	2	mg/L	2
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	MF_CF	Fecal Coliform, Membrane Filter	520	CFU/100mL	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Chloromethane	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Vinyl Chloride	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Bromomethane	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Chloroethane	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Acrolein	0	ug/L	100.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Acrylonitrile	0	ug/L	100.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Methylene Chloride	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Chloroform	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	1,2-Dichloroethane-d4	52.4	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	1,1,1-Trichloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Benzene	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Trichloroethene	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Bromodichloromethane	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Dibromochloromethane	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Bromoform	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Tetrachloroethene	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Toluene	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Toluene-d8	48.1	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Chlorobenzene	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Ethylbenzene	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Bromofluorobenzene	51.9	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	2-Propanone	0	ug/L	60
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	2-Butanone	0	ug/L	60
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	Tetrahydrofuran	1	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	2-chloroethoxy ethene	0	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$624	TOTAL AMOUNT	364	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	NH3	Ammonia as N	0	mg/L	0.5
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	NO3NO2	Nitrate + Nitrite	1.42	mg/L	0.5
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	TKN	Total Kjeldahl Nitrogen	0.7272	mg/L	0.5
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	O&G	O&G Total	0.23	mg/L	5
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	CN	Cyanide	0.0000	mg/L	0.005



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	CN_A	Cyanide Amenable	AW	mg/L	0.005
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	CN_F	Cyanide Free	AW	mg/L	0.005
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	pyridine	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	2-Fluorophenol	32.7	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	aniline	0	ug/L	6.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Phenol-d6	21.6	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Phenol	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	2-Chlorophenol	0	ug/L	6.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	n-decane	0	ug/L	6.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	o-cresol	0	ug/L	6.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	acetophenone	0	ug/L	6.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Hexachloroethane	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Nitrobenzene-d5	53.2	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	p-cresol	0	ug/L	6.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Nitrobenzene	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Isophorone	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Decafluorobiphenyl	40.2	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	2-Nitrophenol	0	ug/L	6.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Naphthalene	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	1-Fluoronaphthalene	48.0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	alpha terpineol	0	ug/L	6.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Dimethyl phthalate	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Acenaphthylene	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Acenaphthene	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	4-Nitrophenol	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Diethyl phthalate	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Fluorene	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	2,4,6-Tribromophenol	68.8	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Hexachlorobenzene	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Pentachlorophenol	0	ug/L	6.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	n-octadecane	0	ug/L	6.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Phenanthrene	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Anthracene	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	carbazole	0	ug/L	6.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Fluoranthene	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Chrysene-d12	50.0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Benzidine	0	ug/L	6.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Pyrene	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Butyl benzyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Chrysene	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Perylene-D12	50.0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Hexachloroethane	0	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	2,3-Dichloroaniline	0	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Diethylphthalate	0	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Benzo[b]fluoranthene	0	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Benzo[k]fluoranthene	0	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Dibenz[a,h]anthracene	2	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Benzo[ghi]perylene	0	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	3	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	7-Oxabicyclo[4.1.0]heptane T	4	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Cyclohexene, 3-chloro- T	1	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	2-Cyclohexen-1-one T	8	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	2-Chlorocyclohexanol T	2	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Tetradecanoic acid T	2	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	n-Hexadecanoic acid T	19	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Octadecanoic acid T	4	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Triphenylphosphine oxide T	1	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	N-[4-Amino-3-nitrophenyl]-N-nitroso-4- T	1	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Pentacene T	2	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	Benzo[ghi]perylene T2	1	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$625	TOTAL AMOUNT	614	ug/L	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$ICP	Aluminum	0.735	mg/L	0.348
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$ICP	Antimony	0.00	mg/L	0.006
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$ICP	Arsenic	0.00	mg/L	0.012
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$ICP	Barium	0.0409	mg/L	0.003
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$ICP	Calcium	45.8	mg/L	0.066
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$ICP	Chromium	0.00	mg/L	0.006
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$ICP	Copper	0.00	mg/L	0.006
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$ICP	Iron	1.29	mg/L	0.018
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$ICP	Lead	0.00	mg/L	0.006
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$ICP	Magnesium	11.9	mg/L	0.021
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$ICP	Manganese	0.101	mg/L	0.009
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$ICP	Nickel	0.00	mg/L	0.003
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$ICP	Selenium	0.00	mg/L	0.009
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$ICP	Silver	0.00	mg/L	0.003
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$ICP	Strontium	0.169	mg/L	0.009
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$ICP	Thallium	0.00	mg/L	0.012
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$ICP	Tin	0.00	mg/L	0.006
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	\$ICP	Zinc	0.00945	mg/L	0.006
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	HARD	Hardness as CaCO3	176	mg/l	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	HG1631	Mercury (Low Level)	3.85	ng/L	0.5
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	E-COLI	E.coli (Colilert)	435	MPN	
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	SSC	Suspended Sediment Concentration	32.8	mg/L	5.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	CL	Chloride	55.7	mg/L	1.00
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	SO4	Sulfate	31.8	mg/L	12.5
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	CHLOROPHYLL	Chlorophyll	5.34	mg/m3	1.00
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	NO2	Nitrite as N	0.0191	mg/l	0.005
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	NO3	Nitrate as N (calculated)	1.4009	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	PB_FU	Lead by Furnace	1.3	ug/L	1.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	AS_FU	Arsenic by Furnace	202	ug/L	1.0
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06476	3261-01	Little Miami River	1	9/5/2012	09:40	CU_FU	Copper by Furnace	3.8	ug/L	1
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	TSS	Tot. Suspended Solids	198	mg/L	2
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	COD	COD	50	mg/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	TDS	Total Dissolved Solids	320	mg/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	CBOD	Carbonaceous Biochemical Oxygen Demand	2	mg/L	2
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	590	CFU/100mL	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Chloromethane	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Bromomethane	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Chloroethane	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Acrolein	0	ug/L	100.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Acrylonitrile	0	ug/L	100.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Methylene Chloride	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Chloroform	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	1,2-Dichloroethane-d4	52.5	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Benzene	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Trichloroethene	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Bromodichloromethane	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Dibromochloromethane	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Bromoform	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Tetrachloroethene	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Toluene	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Toluene-d8	47.9	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Chlorobenzene	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Ethylbenzene	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Bromofluorobenzene	51.8	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	2-Propanone	0	ug/L	60
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	2-Butanone	0	ug/L	60
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	Tetrahydrofuran	1	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	2-chloroethoxy ethene	0	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$624	TOTAL AMOUNT	356	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	NO3NO2	Nitrate + Nitrite	1.51	mg/L	0.5
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	TKN	Total Kjeldahl Nitrogen	2.892	mg/L	0.5
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	TKP	Total Kjeldahl Phosphorus	1.532	mg/L	0.5
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	O&G	O&G Total	0.58	mg/L	5
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	CN	Cyanide	0.0000	mg/L	0.005
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	CN_A	Cyanide Amenable	AW	mg/L	0.005
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	CN_F	Cyanide Free	AW	mg/L	0.005
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	pyridine	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	2-Fluorophenol	35.6	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	aniline	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Phenol-d6	23.4	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Phenol	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	2-Chlorophenol	0	ug/L	6.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	n-decane	0	ug/L	6.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	o-cresol	0	ug/L	6.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	acetophenone	0	ug/L	6.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Hexachloroethane	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Nitrobenzene-d5	55.3	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	p-cresol	0	ug/L	6.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Nitrobenzene	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Isophorone	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Decafluorobiphenyl	50.0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	2-Nitrophenol	0	ug/L	6.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Naphthalene	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	1-Fluoronaphthalene	50.5	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	alpha terpineol	0	ug/L	6.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Dimethyl phthalate	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Acenaphthylene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		Acenaphthene	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		4-Nitrophenol	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		Diethyl phthalate	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		Fluorene	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		2,4,6-Tribromophenol	69.0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		Hexachlorobenzene	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		Pentachlorophenol	0	ug/L	6.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		n-octadecane	0	ug/L	6.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		Phenanthrene	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		Anthracene	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		carbazole	0	ug/L	6.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		Fluoranthene	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		Benzidine	0	ug/L	6.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		Pyrene	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		Chrysene	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		Perylene-D12	50.0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625		Benzo(b)fluoranthene	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Hexachloroethane	0	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	2,3-Dichloroaniline	0	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Diethylphthalate	0	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Benzo[b]fluoranthene	0	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Benzo[k]fluoranthene	0	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Benzo[ghi]perylene	0	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	6	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	7-Oxabicyclo[4.1.0]heptane T	4	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	2-Cyclohexen-1-one T	8	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	2-Chlorocyclohexanol T	1	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Bi-2-cyclohexen-1-yl T	1	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Ethane, 1,1,2-trichloro-1,2,2-trifluor T	1	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	1H-Cyclopenta[1,3]cyclopropa[1,2]benze T	1	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	2-Cyclopenten-1-one, 3,4,5-trimethyl- T	1	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Benzene, 1,2-diethyl-3,4-dimethyl- T	3	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Naphthalene, 1,2,3,4,4a,5,6,8a-octahyd T	1	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Isolongifolen-5-one T	3	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	Formylmethylenetriphenylphosphorane T	1	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$625	TOTAL AMOUNT	615	ug/L	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$ICP	Aluminum	5.23	mg/L	0.348
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$ICP	Antimony	0.00	mg/L	0.006
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$ICP	Barium	0.0775	mg/L	0.003
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$ICP	Cadmium	0.00	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$ICP	Calcium	58.5	mg/L	0.066
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$ICP	Chromium	0.00682	mg/L	0.006
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$ICP	Copper	0.0137	mg/L	0.006
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$ICP	Iron	8.69	mg/L	0.018
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$ICP	Lead	0.00708	mg/L	0.006
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$ICP	Magnesium	16.3	mg/L	0.021
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$ICP	Manganese	0.340	mg/L	0.009
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$ICP	Nickel	0.0103	mg/L	0.003
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$ICP	Selenium	0.0201	mg/L	0.009
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$ICP	Silver	0.00	mg/L	0.003
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$ICP	Strontium	0.212	mg/L	0.009
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$ICP	Thallium	0.00	mg/L	0.012
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$ICP	Tin	0.00	mg/L	0.006
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	\$ICP	Zinc	0.0452	mg/L	0.006
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	HARD	Hardness as CaCO3	192	mg/l	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	HG1631	Mercury (Low Level)	18.3	ng/L	0.5
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	E-COLI	E.coli (Colilert)	613	MPN	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	SSC	Suspended Sediment Concentration	252	mg/L	5.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	CL	Chloride	64.5	mg/L	1.00
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	SO4	Sulfate	38.5	mg/L	12.5
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	CHLOROPHYLL	Chlorophyll	9.15	mg/m3	1.00
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	NO2	Nitrite as N	0.0208	mg/l	0.005
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	NO3	Nitrate as N (calculated)	1.4892	mg/l	
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	AS_FU	Arsenic by Furnace	3.8	ug/L	1.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	PB_FU	Lead by Furnace	9.0	ug/L	1.0
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	CU_FU	Copper by Furnace	11.3	ug/L	1
AC06477	3261-02	Little Miami River	2	9/5/2012	10:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	TSS	Tot. Suspended Solids	38	mg/L	2
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	COD	COD	43	mg/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	TDS	Total Dissolved Solids	380	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	CBOD	Carbonaceous Biochemical Oxygen Demand	2	mg/L	2
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	MF_CF	Fecal Coliform, Membrane Filter	540	CFU/100mL	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Chloromethane	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Vinyl Chloride	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Bromomethane	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Chloroethane	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Acrolein	0	ug/L	100.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Acrylonitrile	0	ug/L	100.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Methylene Chloride	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Chloroform	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	1,2-Dichloroethane-d4	52.5	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Benzene	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Trichloroethene	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Bromodichloromethane	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Dibromochloromethane	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Bromoform	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Tetrachloroethene	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Toluene	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Toluene-d8	47.8	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Chlorobenzene	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Ethylbenzene	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Bromofluorobenzene	52.5	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	2-Propanone	0	ug/L	60
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	2-Butanone	0	ug/L	60
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	Tetrahydrofuran	1	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	2-chloroethoxy ethene	0	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$624	TOTAL AMOUNT	366	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	NH3	Ammonia as N	0	mg/L	0.5
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	NO3NO2	Nitrate + Nitrite	1.74	mg/L	0.5
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	TKN	Total Kjeldahl Nitrogen	0.9819	mg/L	0.5
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	O&G	O&G Total	0.0	mg/L	5
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	CN	Cyanide	0.0000	mg/L	0.005
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	CN_A	Cyanide Amenable	AW	mg/L	0.005
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	CN_F	Cyanide Free	AW	mg/L	0.005
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	pyridine	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	2-Fluorophenol	24.1	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	aniline	0	ug/L	6.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Phenol-d6	16.6	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Phenol	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	2-Chlorophenol	0	ug/L	6.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	n-decane	0	ug/L	6.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	o-cresol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		acetophenone	0	ug/L	6.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Hexachloroethane	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Nitrobenzene-d5	37.8	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		p-cresol	0	ug/L	6.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Nitrobenzene	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Isophorone	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Decafluorobiphenyl	34.0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		2-Nitrophenol	0	ug/L	6.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Naphthalene	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		1-Fluoronaphthalene	34.8	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		alpha terpineol	0	ug/L	6.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Dimethyl phthalate	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Acenaphthylene	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Acenaphthene	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		4-Nitrophenol	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Diethyl phthalate	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Fluorene	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	2,4,6-Tribromophenol	45.7	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Hexachlorobenzene	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Pentachlorophenol	0	ug/L	6.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	n-octadecane	0	ug/L	6.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Phenanthrene	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Anthracene	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	carbazole	0	ug/L	6.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Fluoranthene	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Chrysene-d12	50.0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Benzidine	0	ug/L	6.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Pyrene	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Chrysene	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Perylene-D12	50.0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	Hexachloroethane	0	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625	2,3-Dichloroaniline	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Diethylphthalate	0	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Benzo[b]fluoranthene	0	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Benzo[k]fluoranthene	0	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Benzo[ghi]perylene	0	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	6	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		7-Oxabicyclo[4.1.0]heptane T	4	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		2-Cyclohexen-1-one T	7	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		2-Chlorocyclohexanol T	1	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Butane, 1,2,3,4-tetrachloro-1,1,2,3,4, T	1	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Cyclohexene, 3-(1-methylethyl)- T	1	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		n-Hexadecanoic acid T	1	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Decanedioic acid, dibutyl ester T	1	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Bis(2-ethylhexyl) phthalate T2	1	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Triphenylphosphine oxide T	1	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Nonadecane T	1	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		Squalene T	1	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$625		TOTAL AMOUNT	518	ug/L	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$ICP		Aluminum	1.07	mg/L	0.348
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$ICP		Antimony	0.00	mg/L	0.006
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$ICP		Arsenic	0.00	mg/L	0.012
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$ICP		Barium	0.0528	mg/L	0.003
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$ICP		Beryllium	0.00	mg/L	0.009
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$ICP		Cadmium	0.00	mg/L	0.012
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$ICP		Calcium	57.0	mg/L	0.066
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$ICP		Chromium	0.00	mg/L	0.006
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$ICP		Cobalt	0.00	mg/L	0.006
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$ICP		Copper	0.00	mg/L	0.006
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$ICP		Iron	1.86	mg/L	0.018
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$ICP		Lead	0.00	mg/L	0.006
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$ICP		Magnesium	16.9	mg/L	0.021

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$ICP	Manganese	0.130	mg/L	0.009
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$ICP	Nickel	0.00	mg/L	0.003
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$ICP	Selenium	0.0116	mg/L	0.009
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$ICP	Silver	0.00	mg/L	0.003
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$ICP	Strontium	0.225	mg/L	0.009
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$ICP	Thallium	0.00	mg/L	0.012
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$ICP	Tin	0.00	mg/L	0.006
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$ICP	Vanadium	0.00	mg/L	0.018
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	\$ICP	Zinc	0.0111	mg/L	0.006
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	HARD	Hardness as CaCO3	206	mg/l	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	HG1631	Mercury (Low Level)	1.62	ng/L	0.5
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	E-COLI	E.coli (Colilert)	613	MPN	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	SSC	Suspended Sediment Concentration	41.2	mg/L	5.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	CL	Chloride	86.8	mg/L	1.00
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	SO4	Sulfate	40.2	mg/L	12.5
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	NO2	Nitrite as N	0.0194	mg/l	0.005
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	NO3	Nitrate as N (calculated)	1.7206	mg/l	
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	AS_FU	Arsenic by Furnace	2.6	ug/L	1.0
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	PB_FU	Lead by Furnace	1.9	ug/L	0.5
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	CU_FU	Copper by Furnace	5.0	ug/L	1
AC06478	3261-04	Little Miami River	4	9/5/2012	10:35	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	TSS	Tot. Suspended Solids	26	mg/L	2
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	COD	COD	43	mg/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	TDS	Total Dissolved Solids	430	mg/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	CBOD	Carbonaceous Biochemical Oxygen Demand	2	mg/L	2
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	MF_CF	Fecal Coliform, Membrane Filter	510	CFU/100mL	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624	Chloromethane	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624	Vinyl Chloride	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624	Bromomethane	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624	Chloroethane	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		Acrolein	0	ug/L	100.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		Acrylonitrile	0	ug/L	100.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		Methylene Chloride	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		Chloroform	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		1,2-Dichloroethane-d4	52.5	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		Benzene	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		Trichloroethene	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		Bromodichloromethane	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		Dibromochloromethane	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		Bromoform	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		Tetrachloroethene	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		Toluene	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		Toluene-d8	47.6	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		Chlorobenzene	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		Ethylbenzene	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		Bromofluorobenzene	52.2	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624		1,4-Dichlorobenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624	2-Propanone	0	ug/L	60
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624	2-Butanone	0	ug/L	60
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624	Tetrahydrofuran	1	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624	2-chloroethoxy ethene	0	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$624	TOTAL AMOUNT	355	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	NH3	Ammonia as N	0	mg/L	0.5
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	NO3NO2	Nitrate + Nitrite	1.64	mg/L	0.5
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	TKN	Total Kjeldahl Nitrogen	0.9691	mg/L	0.5
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	O&G	O&G Total	0.0	mg/L	5
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	CN	Cyanide	0.0016	mg/L	0.005
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	CN_A	Cyanide Amenable	AW	mg/L	0.005
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	CN_F	Cyanide Free	AW	mg/L	0.005
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	pyridine	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	2-Fluorophenol	42.7	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	aniline	0	ug/L	6.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	Phenol-d6	29.4	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	Phenol	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	2-Chlorophenol	0	ug/L	6.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	n-decane	0	ug/L	6.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	o-cresol	0	ug/L	6.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	acetophenone	0	ug/L	6.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	Hexachloroethane	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	Nitrobenzene-d5	70.1	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	p-cresol	0	ug/L	6.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	Nitrobenzene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Isophorone	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Decafluorobiphenyl	55.8	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		2-Nitrophenol	0	ug/L	6.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Naphthalene	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		1-Fluoronaphthalene	62.0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		alpha terpineol	0	ug/L	6.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Dimethyl phthalate	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Acenaphthylene	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Acenaphthene	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		4-Nitrophenol	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Diethyl phthalate	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Fluorene	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		2,4,6-Tribromophenol	67.6	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Hexachlorobenzene	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Pentachlorophenol	0	ug/L	6.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		n-octadecane	0	ug/L	6.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Phenanthrene	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Anthracene	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		carbazole	0	ug/L	6.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Fluoranthene	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Chrysene-d12	50.0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Benzidine	0	ug/L	6.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Pyrene	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Chrysene	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Perylene-D12	50.0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Hexachloroethane	0	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		2,3-Dichloroaniline	0	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Diethylphthalate	0	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Benzo[b]fluoranthene	0	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Benzo[k]fluoranthene	0	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625		Benzo[ghi]perylene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	13	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	7-Oxabicyclo[4.1.0]heptane T	5	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	Cyclohexene, 3-chloro- T	1	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	2-Cyclohexen-1-one T	11	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	2-Chlorocyclohexanol T	2	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	Bi-2-cyclohexen-1-yl T	1	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	Butane, 1,2,3,4-tetrachloro-1,1,2,3,4, T	1	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	n-Hexadecanoic acid T	3	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	Decanedioic acid, dibutyl ester T	1	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	Triphenylphosphine oxide T	1	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	Hexacosane T	1	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	tri(2-Ethylhexyl) trimellitate T	2	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$625	TOTAL AMOUNT	668	ug/L	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$ICP	Aluminum	0.719	mg/L	0.348
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$ICP	Antimony	0.00	mg/L	0.006
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$ICP	Arsenic	0.00	mg/L	0.012
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$ICP	Barium	0.0621	mg/L	0.003
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$ICP	Calcium	56.1	mg/L	0.066
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$ICP	Chromium	0.00	mg/L	0.006
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$ICP	Copper	0.00	mg/L	0.006
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$ICP	Iron	1.17	mg/L	0.018
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$ICP	Lead	0.00	mg/L	0.006
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$ICP	Magnesium	18.7	mg/L	0.021
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$ICP	Manganese	0.0749	mg/L	0.009
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$ICP	Nickel	0.00400	mg/L	0.003
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$ICP	Selenium	0.0186	mg/L	0.009
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$ICP	Silver	0.00	mg/L	0.003
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$ICP	Strontium	0.262	mg/L	0.009
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$ICP	Thallium	0.0128	mg/L	0.012
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$ICP	Tin	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	\$ICP	Zinc	0.00997	mg/L	0.006
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	HARD	Hardness as CaCO3	256	mg/l	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	HG1631	Mercury (Low Level)	2.61	ng/L	0.5
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	E-COLI	E.coli (Colilert)	488	MPN	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	SSC	Suspended Sediment Concentration	29.1	mg/L	5.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	CL	Chloride	106	mg/L	1.00
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	SO4	Sulfate	42.2	mg/L	12.5
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	CHLOROPHYLL	Chlorophyll	8.54	mg/m3	1.00
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	NO2	Nitrite as N	0.0226	mg/l	0.005
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	NO3	Nitrate as N (calculated)	1.6174	mg/l	
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	PB_FU	Lead by Furnace	1.1	ug/L	0.5
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	AS_FU	Arsenic by Furnace	2.3	ug/L	1.0
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06479	3261-05	Little Miami River	5	9/5/2012	11:20	CU_FU	Copper by Furnace	3.9	ug/L	1
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	TSS	Tot. Suspended Solids	30	mg/L	2
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	COD	COD	5	mg/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	TDS	Total Dissolved Solids	460	mg/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	CBOD	Carbonaceous Biochemical Oxygen Demand	2	mg/L	2
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	MF_CF	Fecal Coliform, Membrane Filter	700	CFU/100mL	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624	Chloromethane	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624	Bromomethane	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624	Chloroethane	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624	Acrolein	0	ug/L	100.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624	Acrylonitrile	0	ug/L	100.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624	Methylene Chloride	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624	1,1-Dichloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		Chloroform	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		1,2-Dichloroethane-d4	53.4	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		Benzene	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		Trichloroethene	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		Bromoform	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		Toluene	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		Toluene-d8	47.4	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		Chlorobenzene	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		Ethylbenzene	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		Bromofluorobenzene	52.3	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		2-Propanone	0	ug/L	60
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		2-Butanone	0	ug/L	60
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		Tetrahydrofuran	1	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$624		TOTAL AMOUNT	356	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	NH3		Ammonia as N	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	NO3NO2	Nitrate + Nitrite	1.45	mg/L	0.5
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	TKN	Total Kjeldahl Nitrogen	0.9456	mg/L	0.5
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	O&G	O&G Total	0.0	mg/L	5
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	CN	Cyanide	0.0034	mg/L	0.005
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	CN_A	Cyanide Amenable	AW	mg/L	0.005
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	CN_F	Cyanide Free	AW	mg/L	0.005
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	pyridine	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	2-Fluorophenol	33.2	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	aniline	0	ug/L	6.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	Phenol-d6	21.6	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	Phenol	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	2-Chlorophenol	0	ug/L	6.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	n-decane	0	ug/L	6.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	o-cresol	0	ug/L	6.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	acetophenone	0	ug/L	6.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	Hexachloroethane	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	Nitrobenzene-d5	48.5	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	p-cresol	0	ug/L	6.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	Nitrobenzene	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	Isophorone	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	Decafluorobiphenyl	38.0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	2-Nitrophenol	0	ug/L	6.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Naphthalene	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		1-Fluoronaphthalene	42.2	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		alpha terpineol	0	ug/L	6.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Acenaphthylene	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Acenaphthene	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		4-Nitrophenol	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Diethyl phthalate	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Fluorene	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		2,4,6-Tribromophenol	61.5	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Hexachlorobenzene	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Pentachlorophenol	0	ug/L	6.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		n-octadecane	0	ug/L	6.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Phenanthrene	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Anthracene	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		carbazole	0	ug/L	6.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Fluoranthene	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Benzidine	0	ug/L	6.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Pyrene	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Chrysene	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Hexachloroethane	0	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Diethylphthalate	0	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	6	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		7-Oxabicyclo[4.1.0]heptane T	4	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		2-Cyclohexen-1-one T	9	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		2-Chlorocyclohexanol T	2	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Butane, trichloroheptafluoro- T	1	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Bicyclo[2.2.1]heptan-2-one, 1,3,3-trim T	1	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		D-Glucose, 2-O-methyl-, diethyl mercap T	1	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		n-Hexadecanoic acid T	2	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Decanedioic acid, dibutyl ester T	1	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Triphenylphosphine oxide T	1	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Docosane T	1	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		Nonacosane T	1	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$625		TOTAL AMOUNT	572	ug/L	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$ICP		Aluminum	0.521	mg/L	0.348
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$ICP		Antimony	0.00	mg/L	0.006
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$ICP		Arsenic	0.00	mg/L	0.012
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$ICP		Barium	0.0657	mg/L	0.003
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$ICP		Beryllium	0.00	mg/L	0.009
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$ICP		Cadmium	0.00	mg/L	0.012
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$ICP		Calcium	57.0	mg/L	0.066
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$ICP		Chromium	0.00	mg/L	0.006
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$ICP		Cobalt	0.00	mg/L	0.006
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$ICP		Copper	0.00	mg/L	0.006
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$ICP		Iron	0.850	mg/L	0.018
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$ICP		Lead	0.00	mg/L	0.006
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$ICP		Magnesium	19.7	mg/L	0.021
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$ICP		Manganese	0.0644	mg/L	0.009
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$ICP		Nickel	0.00307	mg/L	0.003
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$ICP		Selenium	0.0225	mg/L	0.009
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$ICP		Silver	0.00	mg/L	0.003
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$ICP		Strontium	0.280	mg/L	0.009
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$ICP		Thallium	0.0268	mg/L	0.012
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$ICP		Tin	0.00	mg/L	0.006
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$ICP		Vanadium	0.00	mg/L	0.018
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	\$ICP		Zinc	0.00883	mg/L	0.006
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	HARD		Hardness as CaCO3	258	mg/l	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	HG1631		Mercury (Low Level)	3.49	ng/L	0.5
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	E-COLI		E.coli (Colilert)	365	MPN	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	SSC		Suspended Sediment Concentration	22.4	mg/L	5.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	BOD		Biochemical Oxygen Demand	2	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	CL	Chloride	110	mg/L	1.00
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	SO4	Sulfate	45.2	mg/L	12.5
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	CHLOROPHYLL	Chlorophyll	8.54	mg/m3	1.00
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	NO2	Nitrite as N	0.0197	mg/l	0.005
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	NO3	Nitrate as N (calculated)	1.4303	mg/l	
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	PB_FU	Lead by Furnace	AA	ug/L	0.5
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	AS_FU	Arsenic by Furnace	206	ug/L	1.0
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06480	3261-06	Little Miami River	6	9/5/2012	11:30	CU_FU	Copper by Furnace	3.9	ug/L	1
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	TSS	Tot. Suspended Solids	22	mg/L	2
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	COD	COD	54	mg/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	TDS	Total Dissolved Solids	440	mg/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	CBOD	Carbonaceous Biochemical Oxygen Demand	2	mg/L	2
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	MF_CF	Fecal Coliform, Membrane Filter	440	CFU/100mL	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624	Chloromethane	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624	Vinyl Chloride	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624	Bromomethane	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624	Chloroethane	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624	Acrolein	0	ug/L	100.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624	Acrylonitrile	0	ug/L	100.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624	Methylene Chloride	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624	Chloroform	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624	1,2-Dichloroethane-d4	53.0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624	Benzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		Trichloroethene	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		Bromodichloromethane	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		Dibromochloromethane	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		Bromoform	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		Tetrachloroethene	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		Toluene	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		Toluene-d8	47.6	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		Chlorobenzene	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		Ethylbenzene	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		Bromofluorobenzene	52.9	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		2-Propanone	0	ug/L	60
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		2-Butanone	0	ug/L	60
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		Tetrahydrofuran	1	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		2-chloroethoxy ethene	0	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$624		TOTAL AMOUNT	346	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	NH3		Ammonia as N	0	mg/L	0.5
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	NO3NO2		Nitrate + Nitrite	1.28	mg/L	0.5
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	TKN		Total Kjeldahl Nitrogen	0.8910	mg/L	0.5
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	TKP		Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	O&G		O&G Total	0.12	mg/L	5
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	CN		Cyanide	0.0024	mg/L	0.005
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	CN_A		Cyanide Amenable	AW	mg/L	0.005
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	CN_F		Cyanide Free	AW	mg/L	0.005

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		pyridine	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		2-Fluorophenol	31.0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		aniline	0	ug/L	6.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Phenol-d6	24.3	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Phenol	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		2-Chlorophenol	0	ug/L	6.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		n-decane	0	ug/L	6.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		o-cresol	0	ug/L	6.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		acetophenone	0	ug/L	6.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Hexachloroethane	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Nitrobenzene-d5	59.7	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		p-cresol	0	ug/L	6.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Nitrobenzene	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Isophorone	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Decafluorobiphenyl	49.7	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		2-Nitrophenol	0	ug/L	6.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Naphthalene	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		1-Fluoronaphthalene	52.7	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		alpha terpineol	0	ug/L	6.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Dimethyl phthalate	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Acenaphthylene	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Acenaphthene	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		4-Nitrophenol	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Diethyl phthalate	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Fluorene	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		2,4,6-Tribromophenol	56.1	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Hexachlorobenzene	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Pentachlorophenol	0	ug/L	6.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		n-octadecane	0	ug/L	6.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Phenanthrene	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Anthracene	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		carbazole	0	ug/L	6.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Fluoranthene	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Chrysene-d12	50.0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Benzidine	0	ug/L	6.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Pyrene	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Benzo(a)anthracene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Chrysene	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Perylene-D12	50.0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Hexachloroethane	0	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		2,3-Dichloroaniline	0	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Diethylphthalate	0	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Benzo[b]fluoranthene	0	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Benzo[k]fluoranthene	0	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Benzo[ghi]perylene	0	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	9	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		7-Oxabicyclo[4.1.0]heptane T	4	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Cyclohexene, 3-chloro- T	1	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		2-Cyclohexen-1-one T	9	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		2-Chlorocyclohexanol T	1	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Heptane, 2,4-dimethyl- T	1	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Cyclohexane, 1,2-dichloro-, trans- T	1	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		1,5-Heptadiene, 3,3-dimethyl-, (E)- T	2	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Butane, 1,2,3,4-tetrachloro-1,1,2,3,4, T	1	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Bicyclo[2.2.1]heptan-2-one, 1,3,3-trim T	1	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Bis(2-ethylhexyl) phthalate T2	1	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		Triphenylphosphine oxide T	1	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$625		TOTAL AMOUNT	606	ug/L	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$ICP		Aluminum	0.417	mg/L	0.348



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$ICP	Antimony	0.00	mg/L	0.006
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$ICP	Arsenic	0.00	mg/L	0.012
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$ICP	Barium	0.0675	mg/L	0.003
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$ICP	Calcium	63.4	mg/L	0.066
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$ICP	Chromium	0.00	mg/L	0.006
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$ICP	Copper	0.00	mg/L	0.006
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$ICP	Iron	0.669	mg/L	0.018
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$ICP	Lead	0.00	mg/L	0.006
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$ICP	Magnesium	22.5	mg/L	0.021
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$ICP	Manganese	0.0483	mg/L	0.009
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$ICP	Nickel	0.00	mg/L	0.003
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$ICP	Selenium	0.00	mg/L	0.009
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$ICP	Silver	0.00	mg/L	0.003
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$ICP	Strontium	0.285	mg/L	0.009
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$ICP	Thallium	0.00	mg/L	0.012
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$ICP	Tin	0.00	mg/L	0.006
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	\$ICP	Zinc	0.00818	mg/L	0.006
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	HARD	Hardness as CaCO3	264	mg/l	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	HG1631	Mercury (Low Level)	5.12	ng/L	0.5
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	E-COLI	E.coli (Colilert)	411	MPN	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	SSC	Suspended Sediment Concentration	16.5	mg/L	5.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	CL	Chloride	104	mg/L	1.00
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	SO4	Sulfate	44.2	mg/L	12.5
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	CHLOROPHYLL	Chlorophyll	5.34	mg/m3	1.00
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	NO2	Nitrite as N	0.0190	mg/l	0.005
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	NO3	Nitrate as N (calculated)	1.2610	mg/l	
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	AS_FU	Arsenic by Furnace	202	ug/L	1.0
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	PB_FU	Lead by Furnace	AA	ug/L	0.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06481	3261-07	Little Miami River	7	9/5/2012	11:40	CU_FU	Copper by Furnace	3.3	ug/L	1
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	TSS	Tot. Suspended Solids	22	mg/L	2
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	COD	COD	18	mg/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	TDS	Total Dissolved Solids	460	mg/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	CBOD	Carbonaceous Biochemical Oxygen Demand	2	mg/L	2
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	MF_CF	Fecal Coliform, Membrane Filter	280	CFU/100mL	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Chloromethane	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Bromomethane	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Chloroethane	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Acrolein	0	ug/L	100.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Acrylonitrile	0	ug/L	100.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Methylene Chloride	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Chloroform	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	1,2-Dichloroethane-d4	52.9	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Benzene	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Trichloroethene	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Bromodichloromethane	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	1,1,2-Trichloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Dibromochloromethane	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Bromoform	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Tetrachloroethene	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Toluene	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Toluene-d8	47.5	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Chlorobenzene	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Ethylbenzene	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Bromofluorobenzene	52.3	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	2-Propanone	0	ug/L	60
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	2-Butanone	0	ug/L	60
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	Tetrahydrofuran	1	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	2-chloroethoxy ethene	0	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$624	TOTAL AMOUNT	349	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	NH3	Ammonia as N	0	mg/L	0.5
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	NO3NO2	Nitrate + Nitrite	1.29	mg/L	0.5
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	TKN	Total Kjeldahl Nitrogen	0.8809	mg/L	0.5
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	O&G	O&G Total	0.0	mg/L	5
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	CN	Cyanide	0.0000	mg/L	0.005
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	CN_A	Cyanide Amenable	AW	mg/L	0.005
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	CN_F	Cyanide Free	AW	mg/L	0.005
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	pyridine	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	2-Fluorophenol	41.7	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	aniline	0	ug/L	6.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Phenol-d6	27.7	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Phenol	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	2-Chlorophenol	0	ug/L	6.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	n-decane	0	ug/L	6.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	o-cresol	0	ug/L	6.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	acetophenone	0	ug/L	6.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Hexachloroethane	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Nitrobenzene-d5	72.5	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	p-cresol	0	ug/L	6.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Nitrobenzene	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Isophorone	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Decafluorobiphenyl	70.1	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	2-Nitrophenol	0	ug/L	6.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Naphthalene	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	1-Fluoronaphthalene	72.2	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	alpha terpineol	0	ug/L	6.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Dimethyl phthalate	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Acenaphthylene	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Acenaphthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	4-Nitrophenol	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Diethyl phthalate	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Fluorene	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	2,4,6-Tribromophenol	60.9	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Hexachlorobenzene	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Pentachlorophenol	0	ug/L	6.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	n-octadecane	0	ug/L	6.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Phenanthrene	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Anthracene	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	carbazole	0	ug/L	6.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Fluoranthene	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Chrysene-d12	50.0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Benzidine	0	ug/L	6.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Pyrene	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Chrysene	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Perylene-D12	50.0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625	Benzo(a)pyrene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		Hexachloroethane	0	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		2,3-Dichloroaniline	0	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		Diethylphthalate	0	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		Benzo[b]fluoranthene	0	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		Benzo[k]fluoranthene	0	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		Benzo[ghi]perylene	0	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	14	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		7-Oxabicyclo[4.1.0]heptane T	6	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		2-Cyclohexen-1-one T	11	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		2-Chlorocyclohexanol T	2	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		Butane, 1,2,3,4-tetrachloro-1,1,2,3,4, T	1	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		Bicyclo[2.2.1]heptan-2-one, 1,3,3-trim T	1	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		Spiro[3.5]nonan-1-one T	1	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		Thioimidodicarbonic diamide T	1	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		Triphenylphosphine oxide T	1	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		Phosphoric acid, (1,1-dimethylethyl)ph T	1	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		Heptacosane T	1	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$625		TOTAL AMOUNT	684	ug/L	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$ICP		Aluminum	0.485	mg/L	0.348
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$ICP		Antimony	0.00	mg/L	0.006
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$ICP		Arsenic	0.00	mg/L	0.012
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$ICP		Barium	0.0736	mg/L	0.003
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$ICP		Beryllium	0.00	mg/L	0.009
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$ICP		Cadmium	0.00	mg/L	0.012
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$ICP		Calcium	66.0	mg/L	0.066
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$ICP		Chromium	0.00	mg/L	0.006
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$ICP		Cobalt	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$ICP	Copper	0.00	mg/L	0.006
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$ICP	Iron	0.770	mg/L	0.018
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$ICP	Lead	0.00	mg/L	0.006
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$ICP	Magnesium	24.0	mg/L	0.021
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$ICP	Manganese	0.0510	mg/L	0.009
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$ICP	Nickel	0.00341	mg/L	0.003
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$ICP	Selenium	0.0226	mg/L	0.009
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$ICP	Silver	0.00	mg/L	0.003
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$ICP	Strontium	0.305	mg/L	0.009
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$ICP	Thallium	0.00	mg/L	0.012
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$ICP	Tin	0.00	mg/L	0.006
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	\$ICP	Zinc	0.00855	mg/L	0.006
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	HARD	Hardness as CaCO3	264	mg/l	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	HG1631	Mercury (Low Level)	4.03	ng/L	0.5
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	E-COLI	E.coli (Colilert)	387	MPN	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	SSC	Suspended Sediment Concentration	19.3	mg/L	5.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	CL	Chloride	103	mg/L	1.00
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	SO4	Sulfate	42.5	mg/L	12.5
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	CHLOROPHYLL	Chlorophyll	6.41	mg/m3	1.00
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	NO2	Nitrite as N	0.0180	mg/l	0.005
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	NO3	Nitrate as N (calculated)	1.2720	mg/l	
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	AS_FU	Arsenic by Furnace	2.2	ug/L	1.0
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	PB_FU	Lead by Furnace	AA	ug/L	0.5
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06482	3261-08	Little Miami River	8	9/5/2012	12:00	CU_FU	Copper by Furnace	3.4	ug/L	1
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	TSS	Tot. Suspended Solids	28	mg/L	2
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	COD	COD	33	mg/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	TDS	Total Dissolved Solids	450	mg/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	CBOD	Carbonaceous Biochemical Oxygen Demand	2	mg/L	2
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	MF_CF	Fecal Coliform, Membrane Filter	200	CFU/100mL	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624	Bromochloromethane	50.0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		Chloromethane	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		Vinyl Chloride	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		Bromomethane	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		Chloroethane	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		Acrolein	0	ug/L	100.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		Acrylonitrile	0	ug/L	100.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		Methylene Chloride	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		Chloroform	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		1,2-Dichloroethane-d4	52.8	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		Benzene	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		Trichloroethene	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		Bromodichloromethane	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		Dibromochloromethane	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		Bromoform	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		Tetrachloroethene	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		Toluene	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		Toluene-d8	47.5	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624		Chlorobenzene	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624	Ethylbenzene	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624	Bromofluorobenzene	53.4	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624	2-Propanone	0	ug/L	60
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624	2-Butanone	0	ug/L	60
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624	Tetrahydrofuran	1	ug/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624	2-chloroethoxy ethene	0	ug/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$624	TOTAL AMOUNT	344	ug/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	NH3	Ammonia as N	0	mg/L	0.5
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	NO3NO2	Nitrate + Nitrite	1.21	mg/L	0.5
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	TKN	Total Kjeldahl Nitrogen	0.8658	mg/L	0.5
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	O&G	O&G Total	0.0	mg/L	5
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	CN	Cyanide	0.0020	mg/L	0.005
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	CN_A	Cyanide Amenable	AW	mg/L	0.005
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	CN_F	Cyanide Free	AW	mg/L	0.005
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	pyridine	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	2-Fluorophenol	47.5	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	aniline	0	ug/L	6.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Phenol-d6	32.3	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Phenol	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	2-Chlorophenol	0	ug/L	6.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	n-decane	0	ug/L	6.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	o-cresol	0	ug/L	6.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	acetophenone	0	ug/L	6.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Hexachloroethane	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Nitrobenzene-d5	72.6	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	p-cresol	0	ug/L	6.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Nitrobenzene	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Isophorone	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Decafluorobiphenyl	54.8	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	2-Nitrophenol	0	ug/L	6.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Naphthalene	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	1-Fluoronaphthalene	62.8	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	alpha terpineol	0	ug/L	6.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Dimethyl phthalate	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Acenaphthylene	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Acenaphthene	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	4-Nitrophenol	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Diethyl phthalate	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Fluorene	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	2,4,6-Tribromophenol	72.8	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Hexachlorobenzene	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Pentachlorophenol	0	ug/L	6.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	n-octadecane	0	ug/L	6.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Phenanthrene	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Anthracene	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	carbazole	0	ug/L	6.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Fluoranthene	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Chrysene-d12	50.0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Benzidine	0	ug/L	6.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Pyrene	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Chrysene	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Perylene-D12	50.0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Hexachloroethane	0	ug/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	2,3-Dichloroaniline	0	ug/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Diethylphthalate	0	ug/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625	Benzo[b]fluoranthene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625		Benzo[k]fluoranthene	0	ug/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625		Benzo[ghi]perylene	0	ug/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	19	ug/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625		7-Oxabicyclo[4.1.0]heptane T	5	ug/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625		p-Xylene T	1	ug/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625		Cyclohexene, 3-chloro- T	1	ug/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625		2-Cyclohexen-1-one T	10	ug/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625		2-Chlorocyclohexanol T	2	ug/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625		Undecane T	1	ug/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625		Butane, 1,2,3,4-tetrachloro-1,1,2,3,4, T	1	ug/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625		3-Allylcyclohexene T	1	ug/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625		3-Octyne, 2,2-dimethyl- T	1	ug/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625		Triphenylphosphine oxide T	1	ug/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$625		TOTAL AMOUNT	685	ug/L	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$ICP		Aluminum	0.436	mg/L	0.348
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$ICP		Antimony	0.00	mg/L	0.006
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$ICP		Arsenic	0.00	mg/L	0.012
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$ICP		Barium	0.0742	mg/L	0.003
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$ICP		Beryllium	0.00	mg/L	0.009
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$ICP		Cadmium	0.00	mg/L	0.012
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$ICP		Calcium	65.3	mg/L	0.066
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$ICP		Chromium	0.00	mg/L	0.006
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$ICP		Cobalt	0.00	mg/L	0.006
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$ICP		Copper	0.00	mg/L	0.006
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$ICP		Iron	0.663	mg/L	0.018
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$ICP		Lead	0.00	mg/L	0.006
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$ICP		Magnesium	24.7	mg/L	0.021
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$ICP		Manganese	0.0432	mg/L	0.009
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$ICP		Nickel	0.00	mg/L	0.003
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$ICP		Selenium	0.0268	mg/L	0.009
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$ICP		Silver	0.00	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$ICP	Strontium	0.309	mg/L	0.009
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$ICP	Thallium	0.00	mg/L	0.012
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$ICP	Tin	0.00	mg/L	0.006
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	\$ICP	Zinc	0.00636	mg/L	0.006
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	HARD	Hardness as CaCO3	266	mg/l	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	HG1631	Mercury (Low Level)	3.23	ng/L	0.5
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	E-COLI	E.coli (Colilert)	187	MPN	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	SSC	Suspended Sediment Concentration	15.6	mg/L	5.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	CL	Chloride	99.7	mg/L	1.00
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	SO4	Sulfate	42.0	mg/L	12.5
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	CHLOROPHYLL	Chlorophyll	7.48	mg/m3	1.00
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	NO2	Nitrite as N	0.0153	mg/l	0.005
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	NO3	Nitrate as N (calculated)	1.1947	mg/l	
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	AS_FU	Arsenic by Furnace	2.0	ug/L	1.0
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	PB_FU	Lead by Furnace	AA	ug/L	0.5
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06483	3261-09	Little Miami River	9	9/5/2012	12:50	CU_FU	Copper by Furnace	3.1	ug/L	1
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	TSS	Tot. Suspended Solids	42	mg/L	2
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	COD	COD	51	mg/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	TDS	Total Dissolved Solids	250	mg/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	CBOD	Carbonaceous Biochemical Oxygen Demand	2	mg/L	2
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	460	CFU/100mL	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624	Chloromethane	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624	Bromomethane	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624	Chloroethane	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624	Acrolein	0	ug/L	100.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624	Acrylonitrile	0	ug/L	100.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		Methylene Chloride	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		Chloroform	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		1,2-Dichloroethane-d4	53.0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		Benzene	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		Trichloroethene	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		Bromodichloromethane	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		Bromoform	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		Toluene	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		Toluene-d8	46.8	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		Chlorobenzene	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		Ethylbenzene	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		Bromofluorobenzene	53.3	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		2-Propanone	0	ug/L	60
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		2-Butanone	0	ug/L	60
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624		Tetrahydrofuran	1	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624	2-chloroethoxy ethene	0	ug/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$624	TOTAL AMOUNT	343	ug/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	NO3NO2	Nitrate + Nitrite	1.28	mg/L	0.5
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	TKN	Total Kjeldahl Nitrogen	0.9889	mg/L	0.5
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	O&G	O&G Total	0.0	mg/L	5
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	CN	Cyanide	0.0026	mg/L	0.005
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	CN_A	Cyanide Amenable	AW	mg/L	0.005
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	CN_F	Cyanide Free	AW	mg/L	0.005
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	pyridine	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	2-Fluorophenol	49.4	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	aniline	0	ug/L	6.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Phenol-d6	30.6	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Phenol	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	2-Chlorophenol	0	ug/L	6.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	n-decane	0	ug/L	6.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	o-cresol	0	ug/L	6.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	acetophenone	0	ug/L	6.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Hexachloroethane	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Nitrobenzene-d5	73.2	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	p-cresol	0	ug/L	6.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Nitrobenzene	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Isophorone	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Decafluorobiphenyl	63.9	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	2-Nitrophenol	0	ug/L	6.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	2,4-Dimethylphenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Naphthalene	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	1-Fluoronaphthalene	67.1	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	alpha terpineol	0	ug/L	6.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Dimethyl phthalate	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Acenaphthylene	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Acenaphthene	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	4-Nitrophenol	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Diethyl phthalate	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Fluorene	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	2,4,6-Tribromophenol	77.8	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Hexachlorobenzene	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Pentachlorophenol	0	ug/L	6.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	n-octadecane	0	ug/L	6.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Phenanthrene	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Anthracene	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	carbazole	0	ug/L	6.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Fluoranthene	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Chrysene-d12	50.0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Benzidine	0	ug/L	6.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Pyrene	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Chrysene	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Perylene-D12	50.0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Hexachloroethane	0	ug/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	2,3-Dichloroaniline	0	ug/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Diethylphthalate	0	ug/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Benzo[b]fluoranthene	0	ug/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Benzo[k]fluoranthene	0	ug/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Benzo[ghi]perylene	0	ug/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	15	ug/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	7-Oxabicyclo[4.1.0]heptane T	5	ug/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Cyclohexene, 3-chloro- T	1	ug/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	2-Cyclohexen-1-one T	12	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	2-Chlorocyclohexanol T	2	ug/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Cyclohexane, 1,3-dichloro-, trans- T	1	ug/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Undecane T	1	ug/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Butane, 1,1,3,4-tetrachloro-1,2,2,3,4, T	1	ug/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Ethanone, 1-(3-methylenecyclopentyl)- T	1	ug/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	n-Hexadecanoic acid T	2	ug/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Decanedioic acid, dibutyl ester T	1	ug/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	Triphenylphosphine oxide T	1	ug/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$625	TOTAL AMOUNT	706	ug/L	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$ICP	Aluminum	0.941	mg/L	0.348
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$ICP	Antimony	0.00	mg/L	0.006
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$ICP	Barium	0.0365	mg/L	0.003
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$ICP	Calcium	44.3	mg/L	0.066
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$ICP	Chromium	0.00	mg/L	0.006
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$ICP	Copper	0.00647	mg/L	0.006
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$ICP	Iron	1.54	mg/L	0.018
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$ICP	Lead	0.00	mg/L	0.006
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$ICP	Magnesium	8.91	mg/L	0.021
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$ICP	Manganese	0.160	mg/L	0.009
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$ICP	Nickel	0.00331	mg/L	0.003
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$ICP	Selenium	0.0311	mg/L	0.009
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$ICP	Silver	0.00	mg/L	0.003
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$ICP	Strontium	0.155	mg/L	0.009
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$ICP	Thallium	0.00	mg/L	0.012
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$ICP	Tin	0.00	mg/L	0.006
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	\$ICP	Zinc	0.0222	mg/L	0.006
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	HARD	Hardness as CaCO3	196	mg/l	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	HG1631	Mercury (Low Level)	3.78	ng/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	E-COLI	E.coli (Colilert)	345	MPN	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	SSC	Suspended Sediment Concentration	30.0	mg/L	5.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	CL	Chloride	32.8	mg/L	1.00
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	SO4	Sulfate	33.2	mg/L	12.5
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	CHLOROPHYLL	Chlorophyll	3.74	mg/m3	1.00
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	NO2	Nitrite as N	0.0134	mg/l	0.005
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	NO3	Nitrate as N (calculated)	1.2666	mg/l	
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	AS_FU	Arsenic by Furnace	2.3	ug/L	1.0
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	PB_FU	Lead by Furnace	1.8	ug/L	0.5
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06484	3261-10	Little Miami River	10	9/5/2012	11:00	CU_FU	Copper by Furnace	4.3	ug/L	1
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	MF_CF	Fecal Coliform, Membrane Filter	21	CFU/100mL	
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	E-COLI	E.coli (Colilert)	16	MPN	
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	TDS	Total Dissolved Solids	110	mg/L	
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	SO4	Sulfate	15.4	mg/L	5.0
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	CL	Chloride	13.8	mg/L	1.00
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	TSS	Tot. Suspended Solids	6	mg/L	2
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	HARD	Hardness as CaCO3	146	mg/l	
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	COD	COD	48	mg/L	
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	209	uS/cm	
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	TEMP_FLD	Temperature (Field) Celsius	22.19	Deg C	
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	PH_FLD	pH (Field)	7.74	S.U.	
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	DO_FLD	Dissolved Oxygen (field) mg/L	7.48	mg/l	
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	221	uS/cm	
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	\$ICP	Antimony	0.00	mg/L	0.006
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	\$ICP	Arsenic	0.00	mg/L	0.012
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	\$ICP	Barium	0.0285	mg/L	0.003
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	\$ICP	Cadmium	0.00	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	\$ICP	Calcium	33.9	mg/L	0.066
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	\$ICP	Chromium	0.00	mg/L	0.006
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	\$ICP	Copper	0.00	mg/L	0.006
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	\$ICP	Iron	0.259	mg/L	0.018
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	\$ICP	Lead	0.00	mg/L	0.006
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	\$ICP	Magnesium	8.25	mg/L	0.021
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	\$ICP	Manganese	0.170	mg/L	0.009
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	\$ICP	Nickel	0.00	mg/L	0.003
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	\$ICP	Selenium	0.0127	mg/L	0.009
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	\$ICP	Silver	0.00	mg/L	0.003
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	\$ICP	Strontium	0.0873	mg/L	0.009
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	\$ICP	Thallium	0.00	mg/L	0.012
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	\$ICP	Tin	0.00	mg/L	0.006
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	\$ICP	Zinc	0.00	mg/L	0.006
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	PB_FU	Lead by Furnace	0.12	ug/L	1.0
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	AS_FU	Arsenic by Furnace	1.90	ug/L	1.0
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	CU_FU	Copper by Furnace	AA	ug/L	1
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	NH3	Ammonia as N	0.03	mg/L	0.5
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	NO3NO2	Nitrate + Nitrite	0.05	mg/L	0.5
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	TKN	Total Kjeldahl Nitrogen	0.7339	mg/L	0.5
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	NO2	Nitrite as N	0.018	mg/l	0.005
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	NO3	Nitrate as N (calculated)	0.0320	mg/l	
AC06550	LM25	Little Miami Watershed	25	9/6/2012	08:50	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	MF_CF	Fecal Coliform, Membrane Filter	1200	CFU/100mL	
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	E-COLI	E.coli (Colilert)	980	MPN	
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	TDS	Total Dissolved Solids	190	mg/L	
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	SO4	Sulfate	40.5	mg/L	5.0
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	CL	Chloride	43.1	mg/L	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	TSS	Tot. Suspended Solids	28	mg/L	2
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	SSC	Suspended Sediment Concentration	40.0	mg/L	5.0
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	HARD	Hardness as CaCO3	202	mg/l	
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	COD	COD	44	mg/L	
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	388	uS/cm	
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	TEMP_FLD	Temperature (Field) Celsius	23.25	Deg C	
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	PH_FLD	pH (Field)	7.73	S.U.	
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	DO_FLD	Dissolved Oxygen (field) mg/L	6.47	mg/l	
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	401	uS/cm	
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	\$ICP	Aluminum	0.740	mg/L	0.348
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	\$ICP	Antimony	0.00	mg/L	0.006
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	\$ICP	Arsenic	0.00	mg/L	0.012
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	\$ICP	Barium	0.0378	mg/L	0.003
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	\$ICP	Beryllium	0.00	mg/L	0.009
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	\$ICP	Cadmium	0.00	mg/L	0.012
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	\$ICP	Calcium	52.5	mg/L	0.066
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	\$ICP	Chromium	0.00	mg/L	0.006
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	\$ICP	Cobalt	0.00	mg/L	0.006
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	\$ICP	Copper	0.00	mg/L	0.006
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	\$ICP	Iron	1.31	mg/L	0.018
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	\$ICP	Lead	0.00	mg/L	0.006
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	\$ICP	Magnesium	10.5	mg/L	0.021
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	\$ICP	Manganese	0.156	mg/L	0.009
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	\$ICP	Nickel	0.00327	mg/L	0.003
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	\$ICP	Selenium	0.0239	mg/L	0.009
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	\$ICP	Silver	0.00	mg/L	0.003
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	\$ICP	Strontium	0.184	mg/L	0.009
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	\$ICP	Thallium	0.00	mg/L	0.012
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	\$ICP	Tin	0.00	mg/L	0.006
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	\$ICP	Vanadium	0.00	mg/L	0.018
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	\$ICP	Zinc	0.00945	mg/L	0.006
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	PB_FU	Lead by Furnace	1.03	ug/L	1.0
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	AS_FU	Arsenic by Furnace	1.51	ug/L	1.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	CU_FU	Copper by Furnace	3.6	ug/L	1
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	NH3	Ammonia as N	0	mg/L	0.5
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	NO3NO2	Nitrate + Nitrite	1.40	mg/L	0.5
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	TKN	Total Kjeldahl Nitrogen	0.8284	mg/L	0.5
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	NO2	Nitrite as N	0.013	mg/l	0.005
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	NO3	Nitrate as N (calculated)	1.3870	mg/l	
AC06551	LM34	Little Miami Watershed	34	9/6/2012	09:35	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	1867	CFU/100mL	
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	E-COLI	E.coli (Colilert)	866	MPN	
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	TDS	Total Dissolved Solids	210	mg/L	
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	SO4	Sulfate	42.0	mg/L	12.5
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	CL	Chloride	43.0	mg/L	1.00
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	TSS	Tot. Suspended Solids	28	mg/L	2
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	SSC	Suspended Sediment Concentration	34.0	mg/L	5.0
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	HARD	Hardness as CaCO3	190	mg/l	
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	COD	COD	44	mg/L	
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	388	uS/cm	
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	23.38	Deg C	
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	PH_FLD	pH (Field)	7.89	S.U.	
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	6.48	mg/l	
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	400	uS/cm	
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	\$ICP	Aluminum	0.744	mg/L	0.348
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	\$ICP	Antimony	0.00	mg/L	0.006
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	\$ICP	Barium	0.0387	mg/L	0.003
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	\$ICP	Calcium	53.6	mg/L	0.066
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	\$ICP	Chromium	0.00	mg/L	0.006
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	\$ICP	Cobalt	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	\$ICP	Copper	0.00607	mg/L	0.006
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	\$ICP	Iron	1.31	mg/L	0.018
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	\$ICP	Lead	0.00	mg/L	0.006
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	\$ICP	Magnesium	10.6	mg/L	0.021
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	\$ICP	Manganese	0.164	mg/L	0.009
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	\$ICP	Nickel	0.00420	mg/L	0.003
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	\$ICP	Selenium	0.0146	mg/L	0.009
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	\$ICP	Silver	0.00	mg/L	0.003
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	\$ICP	Strontium	0.187	mg/L	0.009
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	\$ICP	Thallium	0.00	mg/L	0.012
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	\$ICP	Tin	0.00	mg/L	0.006
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	\$ICP	Zinc	0.0134	mg/L	0.006
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	PB_FU	Lead by Furnace	1.08	ug/L	1.0
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	AS_FU	Arsenic by Furnace	1.66	ug/L	1.0
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	CU_FU	Copper by Furnace	3.8	ug/L	1
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	NO3NO2	Nitrate + Nitrite	1.46	mg/L	0.5
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	TKN	Total Kjeldahl Nitrogen	0.8148	mg/L	0.5
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	NO2	Nitrite as N	0.012	mg/l	0.005
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	NO3	Nitrate as N (calculated)	1.4480	mg/l	
AC06552	LM35	Little Miami Watershed	35	9/6/2012	10:00	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	MF_CF	Fecal Coliform, Membrane Filter	2800	CFU/100mL	
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	E-COLI	E.coli (Colilert)	1733	MPN	
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	TDS	Total Dissolved Solids	210	mg/L	
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	SO4	Sulfate	46.2	mg/L	12.5
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	CL	Chloride	38.4	mg/L	1.00
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	TSS	Tot. Suspended Solids	6	mg/L	2
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	SSC	Suspended Sediment Concentration	23.8	mg/L	5.0
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	HARD	Hardness as CaCO3	182	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	COD	COD	42	mg/L	
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	361	uS/cm	
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	TEMP_FLD	Temperature (Field) Celsius	22.11	Deg C	
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	PH_FLD	pH (Field)	7.92	S.U.	
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	DO_FLD	Dissolved Oxygen (field) mg/L	8.07	mg/l	
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	382	uS/cm	
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	\$ICP	Aluminum	0.679	mg/L	0.348
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	\$ICP	Antimony	0.00	mg/L	0.006
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	\$ICP	Arsenic	0.00	mg/L	0.012
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	\$ICP	Barium	0.0363	mg/L	0.003
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	\$ICP	Calcium	48.2	mg/L	0.066
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	\$ICP	Chromium	0.00	mg/L	0.006
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	\$ICP	Copper	0.00770	mg/L	0.006
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	\$ICP	Iron	0.824	mg/L	0.018
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	\$ICP	Lead	0.00	mg/L	0.006
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	\$ICP	Magnesium	9.87	mg/L	0.021
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	\$ICP	Manganese	0.0619	mg/L	0.009
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	\$ICP	Nickel	0.00356	mg/L	0.003
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	\$ICP	Selenium	0.0216	mg/L	0.009
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	\$ICP	Silver	0.00	mg/L	0.003
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	\$ICP	Strontium	0.171	mg/L	0.009
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	\$ICP	Thallium	0.00	mg/L	0.012
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	\$ICP	Tin	0.00	mg/L	0.006
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	\$ICP	Zinc	0.0227	mg/L	0.006
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	PB_FU	Lead by Furnace	0.89	ug/L	1.0
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	AS_FU	Arsenic by Furnace	1.48	ug/L	1.0
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	CU_FU	Copper by Furnace	6.3	ug/L	1
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	NH3	Ammonia as N	0	mg/L	0.5



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	NO3NO2	Nitrate + Nitrite	3.01	mg/L	0.5
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	TKN	Total Kjeldahl Nitrogen	0.7591	mg/L	0.5
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	TKP	Total Kjeldahl Phosphorus	0.5592	mg/L	0.5
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	NO2	Nitrite as N	0.027	mg/l	0.005
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	NO3	Nitrate as N (calculated)	2.9830	mg/l	
AC06553	LM37	Little Miami Watershed	37	9/6/2012	10:40	CHLOROPHYLL	Chlorophyll	6.41	mg/m3	1.00
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	MF_CF	Fecal Coliform, Membrane Filter	5400	CFU/100mL	
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	E-COLI	E.coli (Colilert)	2420	MPN	
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	TDS	Total Dissolved Solids	170	mg/L	
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	SO4	Sulfate	81.5	mg/L	25.0
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	CL	Chloride	35.6	mg/L	1.00
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	TSS	Tot. Suspended Solids	28	mg/L	2
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	SSC	Suspended Sediment Concentration	34.8	mg/L	5.0
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	HARD	Hardness as CaCO3	160	mg/l	
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	COD	COD	48	mg/L	
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	324	uS/cm	
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	TEMP_FLD	Temperature (Field) Celsius	22.30	Deg C	
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	PH_FLD	pH (Field)	7.88	S.U.	
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	DO_FLD	Dissolved Oxygen (field) mg/L	7.42	mg/l	
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	CONDUCTIVITY	Specific Conductivity (uS/cm)	342	uS/cm	
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	\$ICP	Aluminum	0.981	mg/L	0.348
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	\$ICP	Antimony	0.00	mg/L	0.006
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	\$ICP	Arsenic	0.00	mg/L	0.012
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	\$ICP	Barium	0.0343	mg/L	0.003
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	\$ICP	Beryllium	0.00	mg/L	0.009
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	\$ICP	Cadmium	0.00	mg/L	0.012
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	\$ICP	Calcium	40.7	mg/L	0.066
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	\$ICP	Chromium	0.00	mg/L	0.006
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	\$ICP	Cobalt	0.00	mg/L	0.006
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	\$ICP	Copper	0.00712	mg/L	0.006
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	\$ICP	Iron	1.52	mg/L	0.018
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	\$ICP	Lead	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	\$ICP	Magnesium	8.34	mg/L	0.021
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	\$ICP	Manganese	0.0674	mg/L	0.009
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	\$ICP	Nickel	0.00371	mg/L	0.003
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	\$ICP	Selenium	0.0138	mg/L	0.009
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	\$ICP	Silver	0.00	mg/L	0.003
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	\$ICP	Strontium	0.141	mg/L	0.009
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	\$ICP	Thallium	0.00	mg/L	0.012
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	\$ICP	Tin	0.00	mg/L	0.006
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	\$ICP	Vanadium	0.00	mg/L	0.018
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	\$ICP	Zinc	0.0396	mg/L	0.006
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	PB_FU	Lead by Furnace	1.62	ug/L	1.0
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	AS_FU	Arsenic by Furnace	1.87	ug/L	1.0
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	CU_FU	Copper by Furnace	5.0	ug/L	1
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	NH3	Ammonia as N	0	mg/L	0.5
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	NO3NO2	Nitrate + Nitrite	3.07	mg/L	0.5
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	TKN	Total Kjeldahl Nitrogen	1.025	mg/L	0.5
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	TKP	Total Kjeldahl Phosphorus	0.5899	mg/L	0.5
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	NO2	Nitrite as N	0.030	mg/l	0.005
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	NO3	Nitrate as N (calculated)	3.0400	mg/l	
AC06554	LM38	Little Miami Watershed	38	9/6/2012	10:55	CHLOROPHYLL	Chlorophyll	3.74	mg/m3	1.00
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	MF_CF	Fecal Coliform, Membrane Filter	3100	CFU/100mL	
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	E-COLI	E.coli (Colilert)	2420	MPN	
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	TDS	Total Dissolved Solids	260	mg/L	
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	SO4	Sulfate	41.2	mg/L	12.5
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	CL	Chloride	64.1	mg/L	1.00
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	TSS	Tot. Suspended Solids	24	mg/L	2
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	SSC	Suspended Sediment Concentration	7.4	mg/L	5.0
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	HARD	Hardness as CaCO3	218	mg/l	
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	COD	COD	39	mg/L	
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	446	uS/cm	
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	TEMP_FLD	Temperature (Field) Celsius	21.16	Deg C	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	PH_FLD	pH (Field)	8.41	S.U.	
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	DO_FLD	Dissolved Oxygen (field) mg/L	9.44	mg/l	
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	482	uS/cm	
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	\$ICP	Aluminum	0.373	mg/L	0.348
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	\$ICP	Antimony	0.00	mg/L	0.006
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	\$ICP	Arsenic	0.00	mg/L	0.012
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	\$ICP	Barium	0.0287	mg/L	0.003
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	\$ICP	Beryllium	0.00	mg/L	0.009
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	\$ICP	Cadmium	0.00	mg/L	0.012
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	\$ICP	Calcium	60.5	mg/L	0.066
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	\$ICP	Chromium	0.00	mg/L	0.006
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	\$ICP	Cobalt	0.00	mg/L	0.006
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	\$ICP	Copper	0.00665	mg/L	0.006
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	\$ICP	Iron	0.579	mg/L	0.018
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	\$ICP	Lead	0.00	mg/L	0.006
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	\$ICP	Magnesium	9.87	mg/L	0.021
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	\$ICP	Manganese	0.0185	mg/L	0.009
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	\$ICP	Nickel	0.00	mg/L	0.003
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	\$ICP	Selenium	0.0282	mg/L	0.009
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	\$ICP	Silver	0.00	mg/L	0.003
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	\$ICP	Strontium	0.214	mg/L	0.009
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	\$ICP	Thallium	0.00	mg/L	0.012
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	\$ICP	Tin	0.00	mg/L	0.006
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	\$ICP	Vanadium	0.00	mg/L	0.018
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	\$ICP	Zinc	0.00	mg/L	0.006
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	PB_FU	Lead by Furnace	0.48	ug/L	1.0
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	AS_FU	Arsenic by Furnace	1.54	ug/L	1.0
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	CU_FU	Copper by Furnace	4.8	ug/L	1
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	NH3	Ammonia as N	0	mg/L	0.5
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	NO3NO2	Nitrate + Nitrite	1.21	mg/L	0.5
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	TKN	Total Kjeldahl Nitrogen	0.8337	mg/L	0.5
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	NO2	Nitrite as N	0.008	mg/l	0.005
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	NO3	Nitrate as N (calculated)	1.2020	mg/l	
AC06555	LM49	Little Miami Watershed	49	9/6/2012	11:35	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	MF_CF	Fecal Coliform, Membrane Filter	2800	CFU/100mL	
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	E-COLI	E.coli (Colilert)	2420	MPN	
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	TDS	Total Dissolved Solids	250	mg/L	
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	SO4	Sulfate	45.4	mg/L	25.0
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	CL	Chloride	56.8	mg/L	1.00
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	TSS	Tot. Suspended Solids	16	mg/L	2
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	SSC	Suspended Sediment Concentration	5.4	mg/L	5.0
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	HARD	Hardness as CaCO3	166	mg/l	
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	COD	COD	50	mg/L	
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	394	uS/cm	
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	TEMP_FLD	Temperature (Field) Celsius	22.17	Deg C	
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	PH_FLD	pH (Field)	8.37	S.U.	
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	DO_FLD	Dissolved Oxygen (field) mg/L	8.77	mg/l	
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	417	uS/cm	
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	\$ICP	Antimony	0.00	mg/L	0.006
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	\$ICP	Arsenic	0.00	mg/L	0.012
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	\$ICP	Barium	0.0246	mg/L	0.003
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	\$ICP	Calcium	49.5	mg/L	0.066
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	\$ICP	Chromium	0.00	mg/L	0.006
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	\$ICP	Copper	0.00	mg/L	0.006
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	\$ICP	Iron	0.391	mg/L	0.018
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	\$ICP	Lead	0.00	mg/L	0.006
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	\$ICP	Magnesium	8.20	mg/L	0.021
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	\$ICP	Manganese	0.0112	mg/L	0.009
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	\$ICP	Nickel	0.00320	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	\$ICP	Selenium	0.0239	mg/L	0.009
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	\$ICP	Silver	0.00	mg/L	0.003
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	\$ICP	Strontium	0.190	mg/L	0.009
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	\$ICP	Thallium	0.00	mg/L	0.012
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	\$ICP	Tin	0.00	mg/L	0.006
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	\$ICP	Zinc	0.00	mg/L	0.006
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	PB_FU	Lead by Furnace	0.36	ug/L	1.0
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	AS_FU	Arsenic by Furnace	1.06	ug/L	1.0
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	CU_FU	Copper by Furnace	4.0	ug/L	1
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	NH3	Ammonia as N	0	mg/L	0.5
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	NO3NO2	Nitrate + Nitrite	1.19	mg/L	0.5
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	TKN	Total Kjeldahl Nitrogen	0.6777	mg/L	0.5
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	NO2	Nitrite as N	0.012	mg/l	0.005
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	NO3	Nitrate as N (calculated)	1.1780	mg/l	
AC06556	LM50	Little Miami Watershed	50	9/6/2012	11:40	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	MF_CF	Fecal Coliform, Membrane Filter	131	CFU/100mL	
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	E-COLI	E.coli (Colilert)	105	MPN	
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	TDS	Total Dissolved Solids	420	mg/L	
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	SO4	Sulfate	61.5	mg/L	25.0
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	CL	Chloride	150	mg/L	4.0
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	TSS	Tot. Suspended Solids	2	mg/L	2
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	HARD	Hardness as CaCO3	316	mg/l	
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	COD	COD	32	mg/L	
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	752	uS/cm	
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	TEMP_FLD	Temperature (Field) Celsius	20.73	Deg C	
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	PH_FLD	pH (Field)	7.79	S.U.	
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	DO_FLD	Dissolved Oxygen (field) mg/L	7.95	mg/l	
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	820	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	\$ICP	Antimony	0.00	mg/L	0.006
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	\$ICP	Arsenic	0.0121	mg/L	0.012
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	\$ICP	Barium	0.0632	mg/L	0.003
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	\$ICP	Calcium	98.8	mg/L	0.066
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	\$ICP	Chromium	0.00	mg/L	0.006
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	\$ICP	Copper	0.00	mg/L	0.006
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	\$ICP	Iron	0.221	mg/L	0.018
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	\$ICP	Lead	0.00	mg/L	0.006
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	\$ICP	Magnesium	23.0	mg/L	0.021
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	\$ICP	Manganese	0.0117	mg/L	0.009
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	\$ICP	Nickel	0.00720	mg/L	0.003
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	\$ICP	Selenium	0.0333	mg/L	0.009
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	\$ICP	Silver	0.00	mg/L	0.003
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	\$ICP	Strontium	0.353	mg/L	0.009
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	\$ICP	Thallium	0.00	mg/L	0.012
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	\$ICP	Tin	0.00	mg/L	0.006
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	\$ICP	Zinc	0.00	mg/L	0.006
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	PB_FU	Lead by Furnace	0.07	ug/L	1.0
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	AS_FU	Arsenic by Furnace	1.04	ug/L	1.0
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	CU_FU	Copper by Furnace	2.9	ug/L	1
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	NH3	Ammonia as N	0	mg/L	0.5
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	NO2	Nitrite as N	0	mg/l	0.005
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	NO3	Nitrate as N (calculated)	AW	mg/l	
AC06622	LM39	Little Miami Watershed	39	9/7/2012	08:30	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	MF_CF	Fecal Coliform, Membrane Filter	154	CFU/100mL	
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	E-COLI	E.coli (Colilert)	205	MPN	
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	TDS	Total Dissolved Solids	420	mg/L	
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	SO4	Sulfate	57.8	mg/L	12.5
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	CL	Chloride	122	mg/L	2.0
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	TSS	Tot. Suspended Solids	4	mg/L	2
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	HARD	Hardness as CaCO3	314	mg/l	
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	COD	COD	23	mg/L	
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	657	uS/cm	
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	TEMP_FLD	Temperature (Field) Celsius	20.66	Deg C	
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	PH_FLD	pH (Field)	7.89	S.U.	
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	DO_FLD	Dissolved Oxygen (field) mg/L	8.11	mg/l	
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	CONDUCTIVITY	Specific Conductivity (uS/cm)	716	uS/cm	
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	\$ICP	Aluminum	0.00	mg/L	0.348
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	\$ICP	Antimony	0.00	mg/L	0.006
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	\$ICP	Arsenic	0.00	mg/L	0.012
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	\$ICP	Barium	0.0502	mg/L	0.003
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	\$ICP	Beryllium	0.00	mg/L	0.009
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	\$ICP	Cadmium	0.00	mg/L	0.012
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	\$ICP	Calcium	85.9	mg/L	0.066
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	\$ICP	Chromium	0.00	mg/L	0.006
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	\$ICP	Cobalt	0.00	mg/L	0.006
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	\$ICP	Copper	0.00	mg/L	0.006
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	\$ICP	Iron	0.0189	mg/L	0.018
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	\$ICP	Lead	0.00	mg/L	0.006
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	\$ICP	Magnesium	19.1	mg/L	0.021
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	\$ICP	Manganese	0.00	mg/L	0.009
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	\$ICP	Nickel	0.00	mg/L	0.003
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	\$ICP	Selenium	0.0165	mg/L	0.009
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	\$ICP	Silver	0.00	mg/L	0.003
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	\$ICP	Strontium	0.303	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	\$ICP	Thallium	0.00	mg/L	0.012
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	\$ICP	Tin	0.00	mg/L	0.006
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	\$ICP	Vanadium	0.00	mg/L	0.018
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	\$ICP	Zinc	0.00	mg/L	0.006
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	PB_FU	Lead by Furnace	0	ug/L	1.0
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	AS_FU	Arsenic by Furnace	0.57	ug/L	1.0
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	CU_FU	Copper by Furnace	2.1	ug/L	1
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	NH3	Ammonia as N	0	mg/L	0.5
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	NO3NO2	Nitrate + Nitrite	0.20	mg/L	0.5
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	NO2	Nitrite as N	0	mg/l	0.005
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	NO3	Nitrate as N (calculated)	0.2000	mg/l	
AC06623	LM40	Little Miami Watershed	40	9/7/2012	08:55	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	MF_CF	Fecal Coliform, Membrane Filter	1733	CFU/100mL	
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	E-COLI	E.coli (Colilert)	1553	MPN	
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	TDS	Total Dissolved Solids	380	mg/L	
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	SO4	Sulfate	68.5	mg/L	12.5
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	CL	Chloride	178	mg/L	4.0
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	TSS	Tot. Suspended Solids	6	mg/L	2
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	HARD	Hardness as CaCO3	284	mg/l	
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	COD	COD	22	mg/L	
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	825	uS/cm	
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	TEMP_FLD	Temperature (Field) Celsius	21.13	Deg C	
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	PH_FLD	pH (Field)	7.65	S.U.	
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	DO_FLD	Dissolved Oxygen (field) mg/L	5.72	mg/l	
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	891	uS/cm	
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	\$ICP	Aluminum	0.00	mg/L	0.348
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	\$ICP	Antimony	0.00	mg/L	0.006
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	\$ICP	Arsenic	0.00	mg/L	0.012



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	\$ICP	Barium	0.0512	mg/L	0.003
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	\$ICP	Calcium	89.3	mg/L	0.066
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	\$ICP	Chromium	0.00	mg/L	0.006
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	\$ICP	Copper	0.00645	mg/L	0.006
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	\$ICP	Iron	0.124	mg/L	0.018
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	\$ICP	Lead	0.00	mg/L	0.006
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	\$ICP	Magnesium	16.8	mg/L	0.021
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	\$ICP	Manganese	0.0731	mg/L	0.009
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	\$ICP	Nickel	0.00	mg/L	0.003
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	\$ICP	Selenium	0.0303	mg/L	0.009
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	\$ICP	Silver	0.00	mg/L	0.003
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	\$ICP	Strontium	0.314	mg/L	0.009
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	\$ICP	Thallium	0.00	mg/L	0.012
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	\$ICP	Tin	0.00	mg/L	0.006
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	\$ICP	Zinc	0.0272	mg/L	0.006
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	PB_FU	Lead by Furnace	0.22	ug/L	1.0
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	AS_FU	Arsenic by Furnace	2.23	ug/L	1.0
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	CU_FU	Copper by Furnace	4.0	ug/L	1
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	NH3	Ammonia as N	0	mg/L	0.5
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	NO3NO2	Nitrate + Nitrite	1.10	mg/L	0.5
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	TKN	Total Kjeldahl Nitrogen	0.6005	mg/L	0.5
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	NO2	Nitrite as N	0.008	mg/l	0.005
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	NO3	Nitrate as N (calculated)	1.0920	mg/l	
AC06624	LM47	Little Miami Watershed	47	9/7/2012	09:20	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	MF_CF	Fecal Coliform, Membrane Filter	350	CFU/100mL	
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	E-COLI	E.coli (Colilert)	435	MPN	
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	TDS	Total Dissolved Solids	300	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	SO4	Sulfate	33.2	mg/L	12.5
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	CL	Chloride	97.4	mg/L	1.00
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	TSS	Tot. Suspended Solids	4	mg/L	2
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	HARD	Hardness as CaCO3	292	mg/l	
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	COD	COD	23	mg/L	
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	420	uS/cm	
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	PH_FLD	pH (Field)	8.01	S.U.	
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	DO_FLD	Dissolved Oxygen (field) mg/L	7.97	mg/l	
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	456	uS/cm	
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	\$ICP	Antimony	0.00	mg/L	0.006
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	\$ICP	Barium	0.0379	mg/L	0.003
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	\$ICP	Calcium	79.4	mg/L	0.066
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	\$ICP	Chromium	0.00	mg/L	0.006
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	\$ICP	Copper	0.00	mg/L	0.006
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	\$ICP	Iron	0.0945	mg/L	0.018
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	\$ICP	Lead	0.00	mg/L	0.006
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	\$ICP	Magnesium	12.5	mg/L	0.021
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	\$ICP	Manganese	0.0177	mg/L	0.009
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	\$ICP	Nickel	0.00	mg/L	0.003
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	\$ICP	Selenium	0.0185	mg/L	0.009
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	\$ICP	Silver	0.00	mg/L	0.003
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	\$ICP	Strontium	0.277	mg/L	0.009
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	\$ICP	Thallium	0.00	mg/L	0.012
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	\$ICP	Tin	0.00	mg/L	0.006
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	\$ICP	Zinc	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	PB_FU	Lead by Furnace	0.14	ug/L	1.0
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	AS_FU	Arsenic by Furnace	2.40	ug/L	1.0
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	CU_FU	Copper by Furnace	3.6	ug/L	1
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	NH3	Ammonia as N	0	mg/L	0.5
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	NO3NO2	Nitrate + Nitrite	0.659	mg/L	0.5
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	TKN	Total Kjeldahl Nitrogen	0.5159	mg/L	0.5
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	NO2	Nitrite as N	0	mg/l	0.005
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	NO3	Nitrate as N (calculated)	0.6590	mg/l	
AC06625	LM48	Little Miami Watershed	48	9/7/2012	09:30	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	MF_CF	Fecal Coliform, Membrane Filter	290	CFU/100mL	
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	E-COLI	E.coli (Colilert)	261	MPN	
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	TDS	Total Dissolved Solids	160	mg/L	
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	SO4	Sulfate	39.0	mg/L	12.5
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	CL	Chloride	64.3	mg/L	1.00
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	TSS	Tot. Suspended Solids	20	mg/L	2
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	HARD	Hardness as CaCO3	224	mg/l	
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	COD	COD	21	mg/L	
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	424	uS/cm	
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	TEMP_FLD	Temperature (Field) Celsius	22.23	Deg C	
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	PH_FLD	pH (Field)	7.79	S.U.	
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	DO_FLD	Dissolved Oxygen (field) mg/L	6.99	mg/l	
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	CONDUCTIVITY	Specific Conductivity (uS/cm)	448	uS/cm	
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	\$ICP	Aluminum	0.00	mg/L	0.348
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	\$ICP	Antimony	0.00	mg/L	0.006
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	\$ICP	Arsenic	0.00	mg/L	0.012
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	\$ICP	Barium	0.0280	mg/L	0.003
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	\$ICP	Beryllium	0.00	mg/L	0.009
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	\$ICP	Cadmium	0.00	mg/L	0.012
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	\$ICP	Calcium	52.8	mg/L	0.066

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	\$ICP	Chromium	0.00	mg/L	0.006
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	\$ICP	Cobalt	0.00	mg/L	0.006
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	\$ICP	Copper	0.00600	mg/L	0.006
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	\$ICP	Iron	0.118	mg/L	0.018
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	\$ICP	Lead	0.00	mg/L	0.006
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	\$ICP	Magnesium	9.80	mg/L	0.021
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	\$ICP	Manganese	0.0120	mg/L	0.009
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	\$ICP	Nickel	0.00	mg/L	0.003
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	\$ICP	Selenium	0.0240	mg/L	0.009
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	\$ICP	Silver	0.00	mg/L	0.003
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	\$ICP	Strontium	0.206	mg/L	0.009
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	\$ICP	Thallium	0.0193	mg/L	0.012
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	\$ICP	Tin	0.00	mg/L	0.006
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	\$ICP	Vanadium	0.00	mg/L	0.018
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	\$ICP	Zinc	0.00	mg/L	0.006
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	PB_FU	Lead by Furnace	0.14	ug/L	1.0
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	AS_FU	Arsenic by Furnace	1.13	ug/L	1.0
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	CU_FU	Copper by Furnace	3.2	ug/L	1
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	NH3	Ammonia as N	0	mg/L	0.5
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	NO3NO2	Nitrate + Nitrite	0.580	mg/L	0.5
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	NO2	Nitrite as N	0.009	mg/l	0.005
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	NO3	Nitrate as N (calculated)	0.5710	mg/l	
AC06626	LM51	Little Miami Watershed	51	9/7/2012	09:55	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	MF_CF	Fecal Coliform, Membrane Filter	154	CFU/100mL	
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	E-COLI	E.coli (Colilert)	124	MPN	
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	TDS	Total Dissolved Solids	300	mg/L	
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	SO4	Sulfate	68.0	mg/L	25.0
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	CL	Chloride	126	mg/L	2.0
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	TSS	Tot. Suspended Solids	4	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	HARD	Hardness as CaCO3	252	mg/l	
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	COD	COD	24	mg/L	
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	685	uS/cm	
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	TEMP_FLD	Temperature (Field) Celsius	23.45	Deg C	
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	PH_FLD	pH (Field)	7.88	S.U.	
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	DO_FLD	Dissolved Oxygen (field) mg/L	8.11	mg/l	
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	707	uS/cm	
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	\$ICP	Aluminum	0.00	mg/L	0.348
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	\$ICP	Antimony	0.00	mg/L	0.006
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	\$ICP	Arsenic	0.00	mg/L	0.012
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	\$ICP	Barium	0.0236	mg/L	0.003
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	\$ICP	Calcium	64.0	mg/L	0.066
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	\$ICP	Chromium	0.00	mg/L	0.006
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	\$ICP	Copper	0.00714	mg/L	0.006
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	\$ICP	Iron	0.0798	mg/L	0.018
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	\$ICP	Lead	0.00	mg/L	0.006
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	\$ICP	Magnesium	15.9	mg/L	0.021
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	\$ICP	Manganese	0.0131	mg/L	0.009
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	\$ICP	Nickel	0.00	mg/L	0.003
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	\$ICP	Selenium	0.0147	mg/L	0.009
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	\$ICP	Silver	0.00	mg/L	0.003
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	\$ICP	Strontium	0.296	mg/L	0.009
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	\$ICP	Thallium	0.00	mg/L	0.012
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	\$ICP	Tin	0.00	mg/L	0.006
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	\$ICP	Zinc	0.0391	mg/L	0.006
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	PB_FU	Lead by Furnace	0.30	ug/L	1.0
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	AS_FU	Arsenic by Furnace	1.10	ug/L	1.0
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	CD_FU	Cadmium by Furnace	AA	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	CU_FU	Copper by Furnace	4.4	ug/L	1
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	NH3	Ammonia as N	0	mg/L	0.5
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	NO3NO2	Nitrate + Nitrite	2.49	mg/L	0.5
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	TKN	Total Kjeldahl Nitrogen	0.5779	mg/L	0.5
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	TKP	Total Kjeldahl Phosphorus	0.5598	mg/L	0.5
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	NO2	Nitrite as N	0.008	mg/l	0.005
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	NO3	Nitrate as N (calculated)	2.4820	mg/l	
AC06627	LM52	Little Miami Watershed	52	9/7/2012	10:15	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	E-COLI	E.coli (Colilert)	2420	MPN	
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	TDS	Total Dissolved Solids	380	mg/L	
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	SO4	Sulfate	95.0	mg/L	50.0
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	CL	Chloride	178	mg/L	4.0
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	TSS	Tot. Suspended Solids	4	mg/L	2
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	SSC	Suspended Sediment Concentration	AA	mg/L	5.3
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	HARD	Hardness as CaCO3	284	mg/l	
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	COD	COD	13	mg/L	
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	804	uS/cm	
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	TEMP_FLD	Temperature (Field) Celsius	22.96	Deg C	
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	PH_FLD	pH (Field)	8.24	S.U.	
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	DO_FLD	Dissolved Oxygen (field) mg/L	10.32	mg/l	
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	834	uS/cm	
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	\$ICP	Aluminum	0.00	mg/L	0.348
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	\$ICP	Antimony	0.00	mg/L	0.006
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	\$ICP	Arsenic	0.00	mg/L	0.012
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	\$ICP	Barium	0.0915	mg/L	0.003
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	\$ICP	Calcium	72.3	mg/L	0.066
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	\$ICP	Chromium	0.00	mg/L	0.006
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	\$ICP	Copper	0.00699	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	\$ICP	Iron	0.334	mg/L	0.018
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	\$ICP	Lead	0.00	mg/L	0.006
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	\$ICP	Magnesium	19.7	mg/L	0.021
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	\$ICP	Manganese	0.0261	mg/L	0.009
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	\$ICP	Nickel	0.00	mg/L	0.003
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	\$ICP	Selenium	0.0144	mg/L	0.009
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	\$ICP	Silver	0.00	mg/L	0.003
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	\$ICP	Strontium	0.345	mg/L	0.009
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	\$ICP	Thallium	0.00	mg/L	0.012
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	\$ICP	Tin	0.00	mg/L	0.006
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	\$ICP	Zinc	0.0139	mg/L	0.006
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	PB_FU	Lead by Furnace	1.09	ug/L	1.0
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	AS_FU	Arsenic by Furnace	2.19	ug/L	1.0
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	CU_FU	Copper by Furnace	1.6	ug/L	1
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	NH3	Ammonia as N	0	mg/L	0.5
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	NO3NO2	Nitrate + Nitrite	2.13	mg/L	0.5
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	NO2	Nitrite as N	0.021	mg/l	0.005
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	NO3	Nitrate as N (calculated)	2.1090	mg/l	
AC06628	LM71	Little Miami Watershed	71	9/7/2012	10:45	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	MF_CF	Fecal Coliform, Membrane Filter	240	CFU/100mL	
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	E-COLI	E.coli (Colilert)	308	MPN	
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	TDS	Total Dissolved Solids	320	mg/L	
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	SO4	Sulfate	49.2	mg/L	12.5
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	CL	Chloride	98.2	mg/L	1.00
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	TSS	Tot. Suspended Solids	18	mg/L	2
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	SSC	Suspended Sediment Concentration	5.2	mg/L	5.2
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	HARD	Hardness as CaCO3	252	mg/l	
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	COD	COD	14	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	631	uS/cm	
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	TEMP_FLD	Temperature (Field) Celsius	21.62	Deg C	
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	PH_FLD	pH (Field)	8.69	S.U.	
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	DO_FLD	Dissolved Oxygen (field) mg/L	8.77	mg/l	
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	674	uS/cm	
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	NO3NO2	Nitrate + Nitrite	2.64	mg/L	0.5
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	TKN	Total Kjeldahl Nitrogen	0.5379	mg/L	0.5
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	TKP	Total Kjeldahl Phosphorus	0.6099	mg/L	0.5
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	NO2	Nitrite as N	0.017	mg/l	0.005
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	NO3	Nitrate as N (calculated)	2.6230	mg/l	
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	CHLOROPHYLL	Chlorophyll	2.37	mg/m3	1.00
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	Aldrin	AA	ug/L	0.0200
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	Alpha-BHC	AA	ug/L	0.0200
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	Beta-BHC	AA	ug/L	0.0200
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	Delta-BHC	AA	ug/L	0.0200
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	Gamma-BHC	AA	ug/L	0.0200
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	Chlordane	AA	ug/L	0.100
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	4,4-DDD	AA	ug/L	0.0200
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	4,4-DDT	AA	ug/L	0.0300
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	4,4-DDE	AA	ug/L	0.0200
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	Dieldrin	AA	ug/L	0.0200
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	Endosulfan I	AA	ug/L	0.0500
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	Endosulfan II	AA	ug/L	0.0200
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.0500
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	Endrin	AA	ug/L	0.0200
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	Endrin aldehyde	AA	ug/L	0.0200
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	Heptachlor	AA	ug/L	0.0200
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.0500
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	Toxaphene	AA	ug/L	1.00
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	PCB 1232	AA	ug/L	0.5



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	Surr: Decachlorobiphenyl	0.986	%	
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PEST	Surr: Tetrachloro-m-xylene	1.14	%	
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	Chloromethane	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	Bromomethane	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	Chloroethane	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	Acrolein	0	ug/L	100.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	Acrylonitrile	0	ug/L	100.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	Methylene Chloride	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	Chloroform	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	1,2-Dichloroethane-d4	50.0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	Benzene	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	Trichloroethene	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	Bromodichloromethane	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624	Dibromochloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624		Bromoform	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624		Toluene	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624		Toluene-d8	45.9	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624		Chlorobenzene	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624		Ethylbenzene	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624		Bromofluorobenzene	52.7	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624		2-Propanone	0	ug/L	60
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624		2-Butanone	0	ug/L	60
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624		Tetrahydrofuran	1	ug/L	
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624		2-chloroethoxy ethene	4	ug/L	
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$624		TOTAL AMOUNT	382	ug/L	
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		pyridine	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		n-nitrosodimethylamine	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		2-Fluorophenol	14.4	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		aniline	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Phenol-d6	9.25	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Phenol	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		2-Chlorophenol	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		n-decane	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		o-cresol	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		acetophenone	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Hexachloroethane	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Naphthalene-D8	50	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Nitrobenzene-d5	22.9	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		p-cresol	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Nitrobenzene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Isophorone	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Decafluorobiphenyl	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		2-Nitrophenol	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		2,4-Dimethylphenol	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		2,4-Dichlorophenol	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Naphthalene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		1-Fluoronaphthalene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		alpha terpineol	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Hexachlorobutadiene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Acenaphthene-d10	50	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		2,3 dichloroaniline	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		2-Chloronaphthalene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Dimethyl phthalate	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Acenaphthylene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		2,6-Dinitrotoluene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Acenaphthene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		2,4-Dinitrophenol	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		4-Nitrophenol	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		2,4-Dinitrotoluene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Diethyl phthalate	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Fluorene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Phenanthrene-D10	50	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		n-nitrosodiphenylamine	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		2,4,6-Tribromophenol	37.7	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Hexachlorobenzene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Pentachlorophenol	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		n-octadecane	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Phenanthrene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Anthracene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		carbazole	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Di-n-butyl phthalate	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Fluoranthene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Chrysene-d12	50	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Benzidine	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Pyrene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Butyl benzyl phthalate	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Benzo(a)anthracene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Chrysene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Di-n-octyl phthalate	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Perylene-D12	50	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Benzo(b)fluoranthene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Benzo(k)fluoranthene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Benzo(a)pyrene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$625		Benzo(ghi)perylene	AA	ug/L	3.0
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PAHS		Acenaphthene	AA	ug/L	3
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PAHS		Acenaphthylene	AA	ug/L	3
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PAHS		Anthracene	AA	ug/L	3
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PAHS		Benz(a)anthracene	AA	ug/L	3
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PAHS		Benzo(a)pyrene	AA	ug/L	3
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PAHS		Benzo(b)fluoranthene	AA	ug/L	3

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PAHS	Benzo(g,h,i)perylene	AA	ug/L	3
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PAHS	Benzo(k)fluoranthene	AA	ug/L	3
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PAHS	Chrysene	AA	ug/L	3
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PAHS	Dibenz(a,h)anthracene	AA	ug/L	3
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PAHS	Fluoranthene	AA	ug/L	3
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PAHS	Fluorene	AA	ug/L	3
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PAHS	Indeno(1,2,3-cd)pyrene	AA	ug/L	3
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PAHS	Naphthalene	AA	ug/L	3
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PAHS	Phenanthrene	AA	ug/L	3
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PAHS	Pyrene	AA	ug/L	3
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PAHS	Surr: 2-Fluorobiphenyl	24.6	%	
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PAHS	Surr: 4-Terphenyl-d14	45.5	%	
AC06686	LM01	Little Miami Watershed	1	9/10/2012	11:30	\$PAHS	Surr: Nitrobenzene-d5	22.9	%	
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	MF_CF	Fecal Coliform, Membrane Filter	230	CFU/100mL	
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	E-COLI	E.coli (Colilert)	210	MPN	
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	TDS	Total Dissolved Solids	340	mg/L	
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	SO4	Sulfate	40.8	mg/L	12.5
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	CL	Chloride	81.9	mg/L	1.00
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	TSS	Tot. Suspended Solids	10	mg/L	2
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	SSC	Suspended Sediment Concentration	21.6	mg/L	4.9
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	HARD	Hardness as CaCO3	254	mg/l	
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	COD	COD	42	mg/L	
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	554	uS/cm	
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	TEMP_FLD	Temperature (Field) Celsius	21.20	Deg C	
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	PH_FLD	pH (Field)	8.68	S.U.	
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	DO_FLD	Dissolved Oxygen (field) mg/L	8.91	mg/l	
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	597	uS/cm	
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	NH3	Ammonia as N	0	mg/L	0.5
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	NO3NO2	Nitrate + Nitrite	1.40	mg/L	0.5
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	NO2	Nitrite as N	0.012	mg/l	0.005

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	NO3	Nitrate as N (calculated)	1.3880	mg/l	
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	Aldrin	AA	ug/L	0.0200
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	Alpha-BHC	AA	ug/L	0.0200
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	Beta-BHC	AA	ug/L	0.0200
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	Delta-BHC	AA	ug/L	0.0200
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	Gamma-BHC	AA	ug/L	0.0200
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	Chlordane	AA	ug/L	0.100
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	4,4-DDD	AA	ug/L	0.0200
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	4,4-DDT	AA	ug/L	0.0500
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	4,4-DDE	AA	ug/L	0.0200
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	Dieldrin	AA	ug/L	0.0200
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	Endosulfan I	AA	ug/L	0.0500
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	Endosulfan II	AA	ug/L	0.0200
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.0500
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	Endrin	AA	ug/L	0.0200
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	Endrin aldehyde	AA	ug/L	0.0200
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	Heptachlor	AA	ug/L	0.0200
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.0500
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	Toxaphene	AA	ug/L	1.00
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	Surr: Decachlorobiphenyl	1.08	%	
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PEST	Surr: Tetrachloro-m-xylene	1.22	%	
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Chloromethane	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Bromomethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Chloroethane	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Acrolein	0	ug/L	100.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Acrylonitrile	0	ug/L	100.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Methylene Chloride	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Chloroform	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	1,2-Dichloroethane-d4	50.2	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Benzene	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Trichloroethene	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Bromodichloromethane	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Dibromochloromethane	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Bromoform	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Tetrachloroethene	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Toluene	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Toluene-d8	45.4	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Chlorobenzene	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Ethylbenzene	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Bromofluorobenzene	52.1	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	1,3-Dichlorobenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	2-Propanone	0	ug/L	60
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	2-Butanone	0	ug/L	60
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	Tetrahydrofuran	1	ug/L	
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	2-chloroethoxy ethene	0	ug/L	
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$624	TOTAL AMOUNT	364	ug/L	
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	pyridine	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	n-nitrosodimethylamine	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	2-Fluorophenol	17.9	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	aniline	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Phenol-d6	11.6	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Phenol	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	2-Chlorophenol	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	n-decane	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	o-cresol	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	acetophenone	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Hexachloroethane	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Naphthalene-D8	50	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Nitrobenzene-d5	28.8	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	p-cresol	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Nitrobenzene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Isophorone	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Decafluorobiphenyl	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	2-Nitrophenol	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	2,4-Dimethylphenol	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	2,4-Dichlorophenol	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	1,2,4-Trichlorobenzene	AA	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Naphthalene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	1-Fluoronaphthalene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	alpha terpineol	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Hexachlorobutadiene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Acenaphthene-d10	50	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	2,3 dichloroaniline	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	2-Chloronaphthalene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Dimethyl phthalate	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Acenaphthylene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	2,6-Dinitrotoluene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Acenaphthene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	2,4-Dinitrophenol	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	4-Nitrophenol	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	2,4-Dinitrotoluene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Diethyl phthalate	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Fluorene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Phenanthrene-D10	50	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	n-nitrosodiphenylamine	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	2,4,6-Tribromophenol	43.0	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Hexachlorobenzene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Pentachlorophenol	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	n-octadecane	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Phenanthrene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Anthracene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	carbazole	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Di-n-butyl phthalate	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Fluoranthene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Chrysene-d12	50	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Benzidine	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Pyrene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Butyl benzyl phthalate	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Benzo(a)anthracene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Chrysene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Di-n-octyl phthalate	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Perylene-D12	50	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Benzo(b)fluoranthene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Benzo(k)fluoranthene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Benzo(a)pyrene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$625	Benzo(ghi)perylene	AA	ug/L	3.0
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PAHS	Acenaphthene	AA	ug/L	3.00
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PAHS	Acenaphthylene	AA	ug/L	3.00
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PAHS	Anthracene	AA	ug/L	3.00
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PAHS	Benz(a)anthracene	AA	ug/L	3.00
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PAHS	Benzo(a)pyrene	AA	ug/L	3.00
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PAHS	Benzo(b)fluoranthene	AA	ug/L	3.00
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PAHS	Benzo(g,h,i)perylene	AA	ug/L	3.00
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PAHS	Benzo(k)fluoranthene	AA	ug/L	3.00
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PAHS	Chrysene	AA	ug/L	3.00
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PAHS	Dibenz(a,h)anthracene	AA	ug/L	3.00
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PAHS	Fluoranthene	AA	ug/L	3.00
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PAHS	Fluorene	AA	ug/L	3.00
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PAHS	Indeno(1,2,3-cd)pyrene	AA	ug/L	3.00
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PAHS	Naphthalene	AA	ug/L	3.00
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PAHS	Phenanthrene	AA	ug/L	3.00
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PAHS	Pyrene	AA	ug/L	3.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PAHS	Surr: 2-Fluorobiphenyl	32.0	%	
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PAHS	Surr: 4-Terphenyl-d14	46.2	%	
AC06687	LM02	Little Miami Watershed	2 (3261-09)	9/10/2012	12:00	\$PAHS	Surr: Nitrobenzene-d5	28.8	%	
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	MF_CF	Fecal Coliform, Membrane Filter	360	CFU/100mL	
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	E-COLI	E.coli (Colilert)	365	MPN	
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	TDS	Total Dissolved Solids	350	mg/L	
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	SO4	Sulfate	42.5	mg/L	12.5
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	CL	Chloride	78.1	mg/L	1.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	TSS	Tot. Suspended Solids	6	mg/L	2
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	SSC	Suspended Sediment Concentration	29.7	mg/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	HARD	Hardness as CaCO3	250	mg/l	
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	COD	COD	46	mg/L	
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	543	uS/cm	
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	TEMP_FLD	Temperature (Field) Celsius	21.44	Deg C	
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	PH_FLD	pH (Field)	8.63	S.U.	
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	DO_FLD	Dissolved Oxygen (field) mg/L	8.86	mg/l	
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	583	uS/cm	
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	NH3	Ammonia as N	0	mg/L	0.5
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	NO3NO2	Nitrate + Nitrite	1.41	mg/L	0.5
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	NO2	Nitrite as N	0.012	mg/l	0.005
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	NO3	Nitrate as N (calculated)	1.3980	mg/l	
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	Aldrin	AA	ug/L	0.0200
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	Alpha-BHC	AA	ug/L	0.0200
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	Beta-BHC	AA	ug/L	0.0200
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	Delta-BHC	AA	ug/L	0.0200
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	Gamma-BHC	AA	ug/L	0.0200
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	Chlordane	AA	ug/L	0.100
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	4,4-DDD	AA	ug/L	0.0200
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	4,4-DDT	AA	ug/L	0.0300

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	4,4-DDE	AA	ug/L	0.0200
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	Dieldrin	AA	ug/L	0.0200
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	Endosulfan I	AA	ug/L	0.0500
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	Endosulfan II	AA	ug/L	0.0200
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	Endosulfan sulfate	AA	ug/L	0.0500
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	Endrin	AA	ug/L	0.0200
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	Endrin aldehyde	AA	ug/L	0.0200
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	Heptachlor	AA	ug/L	0.0200
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	Heptachlor epoxide	AA	ug/L	0.0500
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	Toxaphene	AA	ug/L	1.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	PCB 1016	AA	ug/L	5.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	PCB 1221	AA	ug/L	5.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	PCB 1232	AA	ug/L	5.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	PCB 1242	AA	ug/L	5.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	PCB 1248	AA	ug/L	5.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	PCB 1254	AA	ug/L	5.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	PCB 1260	AA	ug/L	5.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	Surr: Decachlorobiphenyl	0.969	%	
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PEST	Surr: Tetrachloro-m-xylene	1.13	%	
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624	Chloromethane	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624	Vinyl Chloride	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624	Bromomethane	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624	Chloroethane	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624	Acrolein	0	ug/L	100.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624	Acrylonitrile	0	ug/L	100.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624	Methylene Chloride	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624	Chloroform	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		1,2-Dichloroethane-d4	50.0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		Benzene	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		Trichloroethene	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		Bromodichloromethane	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		Dibromochloromethane	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		Bromoform	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		Tetrachloroethene	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		Toluene	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		Toluene-d8	45.5	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		Chlorobenzene	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		Ethylbenzene	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		Bromofluorobenzene	52.9	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		2-Propanone	0	ug/L	60
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		2-Butanone	0	ug/L	60
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		Tetrahydrofuran	1	ug/L	
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		2-chloroethoxy ethene	0	ug/L	
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$624		TOTAL AMOUNT	361	ug/L	
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		pyridine	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		n-nitrosodimethylamine	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		2-Fluorophenol	17.8	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		aniline	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Phenol-d6	11.3	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Phenol	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		2-Chlorophenol	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		n-decane	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		o-cresol	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		acetophenone	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Hexachloroethane	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Naphthalene-D8	50	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Nitrobenzene-d5	29.3	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		p-cresol	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Nitrobenzene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Isophorone	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Decafluorobiphenyl	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		2-Nitrophenol	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		2,4-Dimethylphenol	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		2,4-Dichlorophenol	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Naphthalene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		1-Fluoronaphthalene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		alpha terpineol	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Hexachlorobutadiene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Acenaphthene-d10	50	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		2,3 dichloroaniline	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		2-Chloronaphthalene	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Dimethyl phthalate	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Acenaphthylene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		2,6-Dinitrotoluene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Acenaphthene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		2,4-Dinitrophenol	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		4-Nitrophenol	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		2,4-Dinitrotoluene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Diethyl phthalate	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Fluorene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Phenanthrene-D10	50	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		n-nitrosodiphenylamine	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		2,4,6-Tribromophenol	41.0	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Hexachlorobenzene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Pentachlorophenol	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		n-octadecane	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Phenanthrene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Anthracene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		carbazole	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Di-n-butyl phthalate	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Fluoranthene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Chrysene-d12	50	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Benzidine	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Pyrene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Butyl benzyl phthalate	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Benzo(a)anthracene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Chrysene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Di-n-octyl phthalate	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Perylene-D12	50	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Benzo(b)fluoranthene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Benzo(k)fluoranthene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Benzo(a)pyrene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$625		Benzo(ghi)perylene	AA	ug/L	3.0
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PAHS		Acenaphthene	AA	ug/L	3.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PAHS		Acenaphthylene	AA	ug/L	3.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PAHS		Anthracene	AA	ug/L	3.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PAHS		Benz(a)anthracene	AA	ug/L	3.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PAHS		Benzo(a)pyrene	AA	ug/L	3.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PAHS		Benzo(b)fluoranthene	AA	ug/L	3.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PAHS		Benzo(g,h,i)perylene	AA	ug/L	3.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PAHS		Benzo(k)fluoranthene	AA	ug/L	3.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PAHS		Chrysene	AA	ug/L	3.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PAHS		Dibenz(a,h)anthracene	AA	ug/L	3.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PAHS		Fluoranthene	AA	ug/L	3.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PAHS		Fluorene	AA	ug/L	3.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PAHS		Indeno(1,2,3-cd)pyrene	AA	ug/L	3.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PAHS		Naphthalene	AA	ug/L	3.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PAHS		Phenanthrene	AA	ug/L	3.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PAHS		Pyrene	AA	ug/L	3.00
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PAHS		Surr: 2-Fluorobiphenyl	17.8	%	
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PAHS		Surr: 4-Terphenyl-d14	46.1	%	
AC06688	LM03	Little Miami Watershed	3	9/10/2012	12:15	\$PAHS		Surr: Nitrobenzene-d5	29.3	%	
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	MF_CF		Fecal Coliform, Membrane Filter	50	CFU/100mL	
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	E-COLI		E.coli (Colilert)	33	MPN	
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	TDS		Total Dissolved Solids	590	mg/L	
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	BOD		Biochemical Oxygen Demand	AE	mg/L	2
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	SO4		Sulfate	88.0	mg/L	25.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	CL		Chloride	300	mg/L	4.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	TSS		Tot. Suspended Solids	10	mg/L	2



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	SSC	Suspended Sediment Concentration	5.2	mg/L	5.1
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	HARD	Hardness as CaCO3	286	mg/l	
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	COD	COD	46	mg/L	
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	970	uS/cm	
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	TEMP_FLD	Temperature (Field) Celsius	22.63	Deg C	
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	PH_FLD	pH (Field)	7.80	S.U.	
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	DO_FLD	Dissolved Oxygen (field) mg/L	8.23	mg/l	
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	1016	uS/cm	
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	NH3	Ammonia as N	0	mg/L	0.5
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	NO3NO2	Nitrate + Nitrite	11.0	mg/L	0.5
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	TKN	Total Kjeldahl Nitrogen	0.7478	mg/L	0.5
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	TKP	Total Kjeldahl Phosphorus	1.079	mg/L	0.5
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	NO2	Nitrite as N	0.024	mg/l	0.005
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	NO3	Nitrate as N (calculated)	10.9760	mg/l	
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	Aldrin	AA	ug/L	0.02
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	Chlordane	AA	ug/L	0.100
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	Endrin	AA	ug/L	0.02
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	Toxaphene	AA	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	Surr: Decachlorobiphenyl	1.14	%	
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PEST	Surr: Tetrachloro-m-xylene	1.30	%	
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Chloromethane	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Bromomethane	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Chloroethane	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Acrolein	0	ug/L	100.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Acrylonitrile	0	ug/L	100.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Methylene Chloride	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Chloroform	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	1,2-Dichloroethane-d4	49.9	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Benzene	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Trichloroethene	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Bromodichloromethane	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Analysis Code	Analysis Description	Results	Units	MDL
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Dibromochloromethane	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Bromoform	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Tetrachloroethene	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Toluene	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Toluene-d8	45.2	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Chlorobenzene	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Ethylbenzene	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Bromofluorobenzene	52.7	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	2-Propanone	0	ug/L	60
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	2-Butanone	0	ug/L	60
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	Tetrahydrofuran	1	ug/L	
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	2-chloroethoxy ethene	0	ug/L	
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$624	TOTAL AMOUNT	353	ug/L	
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	pyridine	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	n-nitrosodimethylamine	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	2-Fluorophenol	20.5	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	aniline	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	Phenol-d6	13.6	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	Phenol	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	2-Chlorophenol	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	n-decane	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	o-cresol	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	acetophenone	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	Hexachloroethane	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	Naphthalene-D8	50	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	Nitrobenzene-d5	30.5	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	p-cresol	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	Nitrobenzene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	Isophorone	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	Decafluorobiphenyl	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	2-Nitrophenol	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	2,4-Dimethylphenol	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	2,4-Dichlorophenol	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	Naphthalene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	1-Fluoronaphthalene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	alpha terpineol	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	Hexachlorobutadiene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	Acenaphthene-d10	50	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	2,3 dichloroaniline	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	2-Chloronaphthalene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	Dimethyl phthalate	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	Acenaphthylene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	2,6-Dinitrotoluene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	Acenaphthene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	2,4-Dinitrophenol	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	4-Nitrophenol	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	2,4-Dinitrotoluene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	Diethyl phthalate	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625	Fluorene	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		Phenanthrene-D10	50	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		n-nitrosodiphenylamine	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		2,4,6-Tribromophenol	34.1	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		Hexachlorobenzene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		Pentachlorophenol	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		n-octadecane	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		Phenanthrene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		Anthracene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		carbazole	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		Di-n-butyl phthalate	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		Fluoranthene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		Chrysene-d12	50	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		Benzidine	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		Pyrene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		Butyl benzyl phthalate	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		Benzo(a)anthracene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		Chrysene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		Di-n-octyl phthalate	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		Perylene-D12	50	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		Benzo(b)fluoranthene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		Benzo(k)fluoranthene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		Benzo(a)pyrene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$625		Benzo(ghi)perylene	AA	ug/L	3.0
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PAHS		Acenaphthene	AA	ug/L	3.00
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PAHS		Acenaphthylene	AA	ug/L	3.00
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PAHS		Anthracene	AA	ug/L	3.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PAHS	Benz(a)anthracene	AA	ug/L	3.00
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PAHS	Benzo(a)pyrene	AA	ug/L	3.00
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PAHS	Benzo(b)fluoranthene	AA	ug/L	3.00
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PAHS	Benzo(g,h,i)perylene	AA	ug/L	3.00
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PAHS	Benzo(k)fluoranthene	AA	ug/L	3.00
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PAHS	Chrysene	AA	ug/L	3.00
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PAHS	Dibenz(a,h)anthracene	AA	ug/L	3.00
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PAHS	Fluoranthene	AA	ug/L	3.00
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PAHS	Fluorene	AA	ug/L	3.00
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PAHS	Indeno(1,2,3-cd)pyrene	AA	ug/L	3.00
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PAHS	Naphthalene	AA	ug/L	3.00
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PAHS	Phenanthrene	AA	ug/L	3.00
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PAHS	Pyrene	AA	ug/L	3.00
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PAHS	Surr: 2-Fluorobiphenyl	30.6	%	
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PAHS	Surr: 4-Terphenyl-d14	44.8	%	
AC06689	LM04	Little Miami Watershed	4	9/10/2012	12:30	\$PAHS	Surr: Nitrobenzene-d5	30.5	%	
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	MF_CF	Fecal Coliform, Membrane Filter	290	CFU/100mL	
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	E-COLI	E.coli (Colilert)	291	MPN	
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	TDS	Total Dissolved Solids	350	mg/L	
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	SO4	Sulfate	39.8	mg/L	1.00
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	CL	Chloride	78.1	mg/L	1.00
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	TSS	Tot. Suspended Solids	20	mg/L	2
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	SSC	Suspended Sediment Concentration	31.5	mg/L	5.3
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	HARD	Hardness as CaCO3	250	mg/l	
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	COD	COD	46	mg/L	
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	533	uS/cm	
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	TEMP_FLD	Temperature (Field) Celsius	21.20	Deg C	
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	PH_FLD	pH (Field)	8.45	S.U.	
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	DO_FLD	Dissolved Oxygen (field) mg/L	8.88	mg/l	
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	575	uS/cm	
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	NH3	Ammonia as N	0	mg/L	0.5
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	NO3NO2	Nitrate + Nitrite	1.44	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	TKN	Total Kjeldahl Nitrogen	0.5490	mg/L	0.5
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	NO2	Nitrite as N	0.013	mg/l	0.005
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	NO3	Nitrate as N (calculated)	1.4270	mg/l	
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	CHLOROPHYLL	Chlorophyll	4.27	mg/m3	1.00
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	Aldrin	AA	ug/L	0.02
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	Beta-BHC	AA	ug/L	0.02
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	Delta-BHC	AA	ug/L	0.02
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	Chlordane	AA	ug/L	0.100
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	4,4-DDE	AA	ug/L	0.02
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	Dieldrin	AA	ug/L	0.02
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	Endosulfan II	AA	ug/L	0.02
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	Endrin	AA	ug/L	0.02
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	Heptachlor	AA	ug/L	0.02
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	Toxaphene	AA	ug/L	1.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	PCB 1016	AA	ug/L	0.5
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	PCB 1221	AA	ug/L	0.5
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	PCB 1232	AA	ug/L	0.5
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	PCB 1242	AA	ug/L	0.5
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	PCB 1248	AA	ug/L	0.5
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	PCB 1254	AA	ug/L	0.5
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	PCB 1260	AA	ug/L	0.5
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	Surr: Decachlorobiphenyl	0.984	%	
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PEST	Surr: Tetrachloro-m-xylene	1.05	%	
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624	Bromochloromethane	50.0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		Chloromethane	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		Vinyl Chloride	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		Bromomethane	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		Chloroethane	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		Acrolein	0	ug/L	100.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		Acrylonitrile	0	ug/L	100.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		Methylene Chloride	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		Chloroform	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		1,2-Dichloroethane-d4	51.0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		Benzene	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		Trichloroethene	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		Bromodichloromethane	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		Dibromochloromethane	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		Bromoform	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		Tetrachloroethene	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		Toluene	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		Toluene-d8	45.2	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624		Chlorobenzene	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624	Ethylbenzene	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624	Bromofluorobenzene	54.0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624	2-Propanone	0	ug/L	60
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624	2-Butanone	0	ug/L	60
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624	Tetrahydrofuran	1	ug/L	
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624	2-chloroethoxy ethene	0	ug/L	
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$624	TOTAL AMOUNT	355	ug/L	
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	pyridine	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	n-nitrosodimethylamine	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	2-Fluorophenol	39.8	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	aniline	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Phenol-d6	26.1	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Phenol	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	2-Chlorophenol	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	n-decane	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	o-cresol	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	acetophenone	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Hexachloroethane	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Naphthalene-D8	50	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Nitrobenzene-d5	62.9	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	p-cresol	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Nitrobenzene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Isophorone	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Decafluorobiphenyl	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	2-Nitrophenol	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	2,4-Dimethylphenol	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	2,4-Dichlorophenol	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Naphthalene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	1-Fluoronaphthalene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	alpha terpineol	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Hexachlorobutadiene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Acenaphthene-d10	50	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	2,3 dichloroaniline	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	2-Chloronaphthalene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Dimethyl phthalate	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Acenaphthylene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	2,6-Dinitrotoluene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Acenaphthene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	2,4-Dinitrophenol	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	4-Nitrophenol	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	2,4-Dinitrotoluene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Diethyl phthalate	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Fluorene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Phenanthrene-D10	50	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	n-nitrosodiphenylamine	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	2,4,6-Tribromophenol	80.2	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Hexachlorobenzene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Pentachlorophenol	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	n-octadecane	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Phenanthrene	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Anthracene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	carbazole	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Di-n-butyl phthalate	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Fluoranthene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Chrysene-d12	50	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Benzidine	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Pyrene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Butyl benzyl phthalate	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Benzo(a)anthracene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Chrysene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Di-n-octyl phthalate	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Perylene-D12	50	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Benzo(b)fluoranthene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Benzo(k)fluoranthene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Benzo(a)pyrene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$625	Benzo(ghi)perylene	AA	ug/L	3.0
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PAHS	Acenaphthene	AA	ug/L	3
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PAHS	Acenaphthylene	AA	ug/L	3
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PAHS	Anthracene	AA	ug/L	3
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PAHS	Benzo(a)anthracene	AA	ug/L	3
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PAHS	Benzo(a)pyrene	AA	ug/L	3
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PAHS	Benzo(b)fluoranthene	AA	ug/L	3
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PAHS	Benzo(g,h,i)perylene	AA	ug/L	3
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PAHS	Benzo(k)fluoranthene	AA	ug/L	3
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PAHS	Chrysene	AA	ug/L	3
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PAHS	Dibenz(a,h)anthracene	AA	ug/L	3
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PAHS	Fluoranthene	AA	ug/L	3
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PAHS	Fluorene	AA	ug/L	3
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PAHS	Indeno(1,2,3-cd)pyrene	AA	ug/L	3

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PAHS	Naphthalene	AA	ug/L	3
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PAHS	Phenanthrene	AA	ug/L	3
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PAHS	Pyrene	AA	ug/L	3
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PAHS	Surr: 2-Fluorobiphenyl	64.2	%	
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PAHS	Surr: 4-Terphenyl-d14	85.6	%	
AC06690	LM05	Little Miami Watershed	5 (3261-08)	9/10/2012	12:50	\$PAHS	Surr: Nitrobenzene-d5	62.9	%	
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	MF_CF	Fecal Coliform, Membrane Filter	270	CFU/100mL	
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	E-COLI	E.coli (Colilert)	186	MPN	
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	TDS	Total Dissolved Solids	320	mg/L	
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	SO4	Sulfate	34.5	mg/L	12.5
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	CL	Chloride	73.2	mg/L	1.00
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	TSS	Tot. Suspended Solids	12	mg/L	2
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	SSC	Suspended Sediment Concentration	19.4	mg/L	5.2
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	HARD	Hardness as CaCO3	238	mg/l	
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	COD	COD	46	mg/L	
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	508	uS/cm	
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	TEMP_FLD	Temperature (Field) Celsius	21.20	Deg C	
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	PH_FLD	pH (Field)	8.59	S.U.	
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	DO_FLD	Dissolved Oxygen (field) mg/L	7.39	mg/l	
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	548	uS/cm	
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	NH3	Ammonia as N	0	mg/L	0.5
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	NO3NO2	Nitrate + Nitrite	1.37	mg/L	0.5
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	NO2	Nitrite as N	0.014	mg/l	0.005
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	NO3	Nitrate as N (calculated)	1.3560	mg/l	
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	Aldrin	AA	ug/L	0.02
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	Beta-BHC	AA	ug/L	0.02
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	Delta-BHC	AA	ug/L	0.02
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	Gamma-BHC	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	Chlordane	AA	ug/L	0.100
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	4,4-DDE	AA	ug/L	0.02
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	Dieldrin	AA	ug/L	0.02
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	Endosulfan II	AA	ug/L	0.02
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	Endrin	AA	ug/L	0.02
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	Heptachlor	AA	ug/L	0.02
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	Toxaphene	AA	ug/L	1.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	PCB 1016	AA	ug/L	0.5
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	PCB 1221	AA	ug/L	0.5
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	PCB 1232	AA	ug/L	0.5
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	PCB 1242	AA	ug/L	0.5
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	PCB 1248	AA	ug/L	0.5
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	PCB 1254	AA	ug/L	0.5
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	PCB 1260	AA	ug/L	0.5
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	Surr: Decachlorobiphenyl	1.01	%	
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PEST	Surr: Tetrachloro-m-xylene	1.17	%	
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624	Chloromethane	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624	Vinyl Chloride	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624	Bromomethane	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624	Chloroethane	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624	Acrolein	0	ug/L	100.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624	Acrylonitrile	0	ug/L	100.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624	Methylene Chloride	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		Chloroform	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		1,2-Dichloroethane-d4	50.9	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		Benzene	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		Trichloroethene	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		Bromodichloromethane	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		Dibromochloromethane	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		Bromoform	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		Tetrachloroethene	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		Toluene	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		Toluene-d8	45.5	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		Chlorobenzene	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		Ethylbenzene	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		Bromofluorobenzene	53.5	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		2-Propanone	0	ug/L	60
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		2-Butanone	0	ug/L	60
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		Tetrahydrofuran	1	ug/L	
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		2-chloroethoxy ethene	0	ug/L	
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$624		TOTAL AMOUNT	352	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	pyridine	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	n-nitrosodimethylamine	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	2-Fluorophenol	17.2	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	aniline	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Phenol-d6	10.8	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Phenol	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	2-Chlorophenol	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	n-decane	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	o-cresol	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	acetophenone	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Hexachloroethane	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Naphthalene-D8	50	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Nitrobenzene-d5	27.2	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	p-cresol	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Nitrobenzene	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Isophorone	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Decafluorobiphenyl	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	2-Nitrophenol	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	2,4-Dimethylphenol	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	2,4-Dichlorophenol	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Naphthalene	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	1-Fluoronaphthalene	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	alpha terpineol	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Hexachlorobutadiene	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Acenaphthene-d10	50	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Hexachlorocyclopentadiene	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	2,3 dichloroaniline	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	2-Chloronaphthalene	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Dimethyl phthalate	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Acenaphthylene	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	2,6-Dinitrotoluene	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Acenaphthene	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	2,4-Dinitrophenol	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	4-Nitrophenol	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	2,4-Dinitrotoluene	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Diethyl phthalate	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Fluorene	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Phenanthrene-D10	50	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	n-nitrosodiphenylamine	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	2,4,6-Tribromophenol	38.5	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Hexachlorobenzene	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Pentachlorophenol	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	n-octadecane	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Phenanthrene	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Anthracene	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	carbazole	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Di-n-butyl phthalate	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Fluoranthene	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Chrysene-d12	50	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Benzidine	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Pyrene	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Butyl benzyl phthalate	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Benzo(a)anthracene	AA	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Chrysene	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Di-n-octyl phthalate	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Perylene-D12	50	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Benzo(b)fluoranthene	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Benzo(k)fluoranthene	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Benzo(a)pyrene	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$625	Benzo(ghi)perylene	AA	ug/L	3.0
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PAHS	Acenaphthene	AA	ug/L	3
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PAHS	Acenaphthylene	AA	ug/L	3
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PAHS	Anthracene	AA	ug/L	3
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PAHS	Benz(a)anthracene	AA	ug/L	3
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PAHS	Benzo(a)pyrene	AA	ug/L	3
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PAHS	Benzo(b)fluoranthene	AA	ug/L	3
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PAHS	Benzo(g,h,i)perylene	AA	ug/L	3
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PAHS	Benzo(k)fluoranthene	AA	ug/L	3
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PAHS	Chrysene	AA	ug/L	3
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PAHS	Dibenz(a,h)anthracene	AA	ug/L	3
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PAHS	Fluoranthene	AA	ug/L	3
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PAHS	Fluorene	AA	ug/L	3
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PAHS	Indeno(1,2,3-cd)pyrene	AA	ug/L	3
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PAHS	Naphthalene	AA	ug/L	3
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PAHS	Phenanthrene	AA	ug/L	3
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PAHS	Pyrene	AA	ug/L	3
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PAHS	Surr: 2-Fluorobiphenyl	27.6	%	
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PAHS	Surr: 4-Terphenyl-d14	44.4	%	
AC06691	LM06	Little Miami Watershed	6 (3261-07)	9/10/2012	13:10	\$PAHS	Surr: Nitrobenzene-d5	27.2	%	
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	MF_CF	Fecal Coliform, Membrane Filter	230	CFU/100mL	
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	E-COLI	E.coli (Colilert)	210	MPN	
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	TDS	Total Dissolved Solids	310	mg/L	
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	BOD	Biochemical Oxygen Demand	AE	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	SO4	Sulfate	38.8	mg/L	12.5
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	CL	Chloride	72.2	mg/L	1.00
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	TSS	Tot. Suspended Solids	22	mg/L	2
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	SSC	Suspended Sediment Concentration	26.1	mg/L	5.3
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	HARD	Hardness as CaCO3	256	mg/l	
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	COD	COD	43	mg/L	
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	476	uS/cm	
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	TEMP_FLD	Temperature (Field) Celsius	22.31	Deg C	
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	PH_FLD	pH (Field)	8.40	S.U.	
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	DO_FLD	Dissolved Oxygen (field) mg/L	8.92	mg/l	
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	502	uS/cm	
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	NH3	Ammonia as N	0	mg/L	0.5
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	NO3NO2	Nitrate + Nitrite	1.39	mg/L	0.5
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	NO2	Nitrite as N	0.012	mg/l	0.005
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	NO3	Nitrate as N (calculated)	1.3780	mg/l	
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	CHLOROPHYLL	Chlorophyll	3.74	mg/m3	1.00
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	Aldrin	AA	ug/L	0.1
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	Chlordane	AA	ug/L	0.100
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	Endrin	AA	ug/L	0.02
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	Surr: Decachlorobiphenyl	1.03	%	
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PEST	Surr: Tetrachloro-m-xylene	1.13	%	
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Chloromethane	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Bromomethane	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Chloroethane	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Acrolein	0	ug/L	100.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Acrylonitrile	0	ug/L	100.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Methylene Chloride	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Chloroform	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	1,2-Dichloroethane-d4	50.2	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Benzene	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Trichloroethene	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	2-Chloroethylvinylether	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Bromodichloromethane	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Dibromochloromethane	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Bromoform	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Tetrachloroethene	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Toluene	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Toluene-d8	44.9	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Chlorobenzene	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Ethylbenzene	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Bromofluorobenzene	55.7	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	2-Propanone	0	ug/L	60
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	2-Butanone	0	ug/L	60
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	Tetrahydrofuran	1	ug/L	
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	2-chloroethoxy ethene	0	ug/L	
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$624	TOTAL AMOUNT	349	ug/L	
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	pyridine	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	n-nitrosodimethylamine	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	2-Fluorophenol	14.8	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	aniline	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Phenol-d6	9.41	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Phenol	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	2-Chlorophenol	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	n-decane	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	o-cresol	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	acetophenone	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Hexachloroethane	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Naphthalene-D8	50	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Nitrobenzene-d5	24.6	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	p-cresol	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Nitrobenzene	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Isophorone	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Decafluorobiphenyl	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	2-Nitrophenol	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	2,4-Dimethylphenol	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	2,4-Dichlorophenol	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Naphthalene	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	1-Fluoronaphthalene	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	alpha terpineol	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Hexachlorobutadiene	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Acenaphthene-d10	50	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	2,3 dichloroaniline	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	2-Chloronaphthalene	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Dimethyl phthalate	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Acenaphthylene	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	2,6-Dinitrotoluene	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Acenaphthene	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	2,4-Dinitrophenol	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	4-Nitrophenol	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	2,4-Dinitrotoluene	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Diethyl phthalate	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Fluorene	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Phenanthrene-D10	50	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	n-nitrosodiphenylamine	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	2,4,6-Tribromophenol	36.8	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Hexachlorobenzene	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Pentachlorophenol	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	n-octadecane	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Phenanthrene	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Anthracene	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	carbazole	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Di-n-butyl phthalate	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Fluoranthene	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Chrysene-d12	50	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Benzidine	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Pyrene	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Butyl benzyl phthalate	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Benzo(a)anthracene	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Chrysene	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Di-n-octyl phthalate	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Perylene-D12	50	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Benzo(b)fluoranthene	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Benzo(k)fluoranthene	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Benzo(a)pyrene	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$625	Benzo(ghi)perylene	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PAHS	Acenaphthene	AA	ug/L	3
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PAHS	Acenaphthylene	AA	ug/L	3
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PAHS	Anthracene	AA	ug/L	3
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PAHS	Benz(a)anthracene	AA	ug/L	3
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PAHS	Benzo(a)pyrene	AA	ug/L	3
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PAHS	Benzo(b)fluoranthene	AA	ug/L	3
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PAHS	Benzo(g,h,i)perylene	AA	ug/L	3
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PAHS	Benzo(k)fluoranthene	AA	ug/L	3
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PAHS	Chrysene	AA	ug/L	3
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PAHS	Dibenz(a,h)anthracene	AA	ug/L	3
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PAHS	Fluoranthene	AA	ug/L	3
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PAHS	Fluorene	AA	ug/L	3
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PAHS	Indeno(1,2,3-cd)pyrene	AA	ug/L	3
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PAHS	Naphthalene	AA	ug/L	3
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PAHS	Phenanthrene	AA	ug/L	3
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PAHS	Pyrene	AA	ug/L	3
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PAHS	Surr: 2-Fluorobiphenyl	25.6	%	
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PAHS	Surr: 4-Terphenyl-d14	44.8	%	
AC06692	LM08	Little Miami Watershed	8 (3261-06)	9/10/2012	13:30	\$PAHS	Surr: Nitrobenzene-d5	24.6	%	
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	MF_CF	Fecal Coliform, Membrane Filter	210	CFU/100mL	
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	E-COLI	E.coli (Colilert)	435	MPN	
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	TDS	Total Dissolved Solids	350	mg/L	
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	SO4	Sulfate	43.2	mg/L	12.5
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	CL	Chloride	85.0	mg/L	1.00
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	TSS	Tot. Suspended Solids	18	mg/L	2
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	SSC	Suspended Sediment Concentration	20.2	mg/L	5.6
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	HARD	Hardness as CaCO3	264	mg/l	
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	COD	COD	40	mg/L	
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	630	uS/cm	
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	TEMP_FLD	Temperature (Field) Celsius	19.85	Deg C	
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	PH_FLD	pH (Field)	8.14	S.U.	
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	DO_FLD	Dissolved Oxygen (field) mg/L	6.47	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	CONDUCTIVITY	Specific Conductivity (uS/cm)	698	uS/cm	
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	NH3	Ammonia as N	0	mg/L	0.5
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	NO3NO2	Nitrate + Nitrite	1.71	mg/L	0.5
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	NO2	Nitrite as N	0.0144	mg/l	0.005
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	NO3	Nitrate as N (calculated)	1.6956	mg/l	
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	CHLOROPHYLL	Chlorophyll	2.37	mg/m3	1.00
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	Aldrin	AA	ug/L	0.02
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	Beta-BHC	AA	ug/L	0.02
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	Delta-BHC	AA	ug/L	0.02
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	Chlordane	AA	ug/L	0.100
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	4,4-DDE	AA	ug/L	0.02
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	Dieldrin	AA	ug/L	0.02
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	Endosulfan II	AA	ug/L	0.02
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	Endrin	AA	ug/L	0.02
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	Heptachlor	AA	ug/L	0.02
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	Toxaphene	AA	ug/L	1.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	PCB 1016	AA	ug/L	0.5
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	PCB 1221	AA	ug/L	0.5
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	PCB 1232	AA	ug/L	0.5
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	PCB 1242	AA	ug/L	0.5
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	PCB 1248	AA	ug/L	0.5
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	PCB 1254	AA	ug/L	0.5
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	PCB 1260	AA	ug/L	0.5



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	Surr: Decachlorobiphenyl	1.02	%	
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PEST	Surr: Tetrachloro-m-xylene	1.11	%	
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Chloromethane	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Vinyl Chloride	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Bromomethane	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Chloroethane	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Acrolein	0	ug/L	100.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Acrylonitrile	0	ug/L	100.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Methylene Chloride	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Chloroform	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	1,2-Dichloroethane-d4	50.4	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Benzene	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Trichloroethene	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Bromodichloromethane	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Dibromochloromethane	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Bromoform	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Tetrachloroethene	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Toluene	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Toluene-d8	44.9	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Chlorobenzene	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Ethylbenzene	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Bromofluorobenzene	55.4	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	2-Propanone	0	ug/L	60
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	2-Butanone	0	ug/L	60
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	Tetrahydrofuran	1	ug/L	
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	2-chloroethoxy ethene	0	ug/L	
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$624	TOTAL AMOUNT	349	ug/L	
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	pyridine	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	n-nitrosodimethylamine	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	2-Fluorophenol	36.4	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	aniline	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Phenol-d6	25.0	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Phenol	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	2-Chlorophenol	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	n-decane	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	o-cresol	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	acetophenone	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Hexachloroethane	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Naphthalene-D8	50	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Nitrobenzene-d5	58.4	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	p-cresol	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Nitrobenzene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Isophorone	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Decafluorobiphenyl	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	2-Nitrophenol	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	2,4-Dimethylphenol	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	2,4-Dichlorophenol	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Naphthalene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	1-Fluoronaphthalene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	alpha terpineol	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Hexachlorobutadiene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Acenaphthene-d10	50	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	2,3 dichloroaniline	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	2-Chloronaphthalene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Dimethyl phthalate	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Acenaphthylene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	2,6-Dinitrotoluene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Acenaphthene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	2,4-Dinitrophenol	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	4-Nitrophenol	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	2,4-Dinitrotoluene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Diethyl phthalate	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Fluorene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Phenanthrene-D10	50	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	n-nitrosodiphenylamine	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	2,4,6-Tribromophenol	79.8	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Hexachlorobenzene	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Pentachlorophenol	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	n-octadecane	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Phenanthrene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Anthracene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	carbazole	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Di-n-butyl phthalate	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Fluoranthene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Chrysene-d12	50	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Benzidine	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Pyrene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Butyl benzyl phthalate	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Benzo(a)anthracene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Chrysene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Di-n-octyl phthalate	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Perylene-D12	50	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Benzo(b)fluoranthene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Benzo(k)fluoranthene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Benzo(a)pyrene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$625	Benzo(ghi)perylene	AA	ug/L	3.0
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PAHS	Acenaphthene	AA	ug/L	3
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PAHS	Acenaphthylene	AA	ug/L	3
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PAHS	Anthracene	AA	ug/L	3
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PAHS	Benz(a)anthracene	AA	ug/L	3
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PAHS	Benzo(a)pyrene	AA	ug/L	3
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PAHS	Benzo(b)fluoranthene	AA	ug/L	3
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PAHS	Benzo(g,h,i)perylene	AA	ug/L	3
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PAHS	Benzo(k)fluoranthene	AA	ug/L	3
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PAHS	Chrysene	AA	ug/L	3
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PAHS	Dibenz(a,h)anthracene	AA	ug/L	3

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PAHS	Fluoranthene	AA	ug/L	3
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PAHS	Fluorene	AA	ug/L	3
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PAHS	Indeno(1,2,3-cd)pyrene	AA	ug/L	3
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PAHS	Naphthalene	AA	ug/L	3
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PAHS	Phenanthrene	AA	ug/L	3
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PAHS	Pyrene	AA	ug/L	3
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PAHS	Surr: 2-Fluorobiphenyl	57.8	%	
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PAHS	Surr: 4-Terphenyl-d14	85.5	%	
AC06765	LM07	Little Miami Watershed	7	9/11/2012	09:48	\$PAHS	Surr: Nitrobenzene-d5	58.4	%	
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	MF_CF	Fecal Coliform, Membrane Filter	200	CFU/100mL	
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	E-COLI	E.coli (Colilert)	162	MPN	
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	TDS	Total Dissolved Solids	350	mg/L	
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	SO4	Sulfate	41.5	mg/L	12.5
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	CL	Chloride	86.5	mg/L	1.00
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	TSS	Tot. Suspended Solids	20	mg/L	2
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	SSC	Suspended Sediment Concentration	27.8	mg/L	5.4
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	HARD	Hardness as CaCO3	278	mg/l	
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	COD	COD	39	mg/L	
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	623	uS/cm	
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	TEMP_FLD	Temperature (Field) Celsius	20.46	Deg C	
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	PH_FLD	pH (Field)	8.23	S.U.	
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	DO_FLD	Dissolved Oxygen (field) mg/L	8.22	mg/l	
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	682	uS/cm	
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	NH3	Ammonia as N	0	mg/L	0.5
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	NO3NO2	Nitrate + Nitrite	1.51	mg/L	0.5
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	TKN	Total Kjeldahl Nitrogen	0.5375	mg/L	0.5
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	NO2	Nitrite as N	0.013	mg/l	0.005
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	NO3	Nitrate as N (calculated)	11.0870	mg/l	
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	Aldrin	AA	ug/L	0.02
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	Alpha-BHC	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	Beta-BHC	AA	ug/L	0.02
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	Delta-BHC	AA	ug/L	0.02
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	Chlordane	AA	ug/L	0.100
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	4,4-DDE	AA	ug/L	0.02
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	Dieldrin	AA	ug/L	0.02
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	Endosulfan II	AA	ug/L	0.02
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	Endrin	AA	ug/L	0.02
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	Heptachlor	AA	ug/L	0.02
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	Toxaphene	AA	ug/L	1.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	PCB 1016	AA	ug/L	0.5
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	PCB 1221	AA	ug/L	0.5
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	PCB 1232	AA	ug/L	0.5
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	PCB 1242	AA	ug/L	0.5
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	PCB 1248	AA	ug/L	0.5
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	PCB 1254	AA	ug/L	0.5
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	PCB 1260	AA	ug/L	0.5
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	Surr: Decachlorobiphenyl	0.996	%	
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PEST	Surr: Tetrachloro-m-xylene	1.10	%	
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624	Chloromethane	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624	Vinyl Chloride	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624	Bromomethane	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624	Chloroethane	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624	Acrolein	0	ug/L	100.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624	1,1-Dichloroethene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		Acrylonitrile	0	ug/L	100.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		Methylene Chloride	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		Chloroform	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		1,2-Dichloroethane-d4	51.0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		Benzene	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		Trichloroethene	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		Bromodichloromethane	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		Dibromochloromethane	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		Bromoform	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		Tetrachloroethene	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		Toluene	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		Toluene-d8	44.8	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		Chlorobenzene	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		Ethylbenzene	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		Bromofluorobenzene	55.5	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		2-Propanone	0	ug/L	60
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624		2-Butanone	0	ug/L	60

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624	Tetrahydrofuran	1	ug/L	
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624	2-chloroethoxy ethene	0	ug/L	
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$624	TOTAL AMOUNT	336	ug/L	
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	pyridine	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	n-nitrosodimethylamine	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	2-Fluorophenol	35.9	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	aniline	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Phenol-d6	24.3	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Phenol	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	2-Chlorophenol	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	n-decane	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	o-cresol	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	acetophenone	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Hexachloroethane	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Naphthalene-D8	50	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Nitrobenzene-d5	57.8	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	p-cresol	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Nitrobenzene	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Isophorone	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Decafluorobiphenyl	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	2-Nitrophenol	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	2,4-Dimethylphenol	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	2,4-Dichlorophenol	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Naphthalene	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	1-Fluoronaphthalene	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	alpha terpineol	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Hexachlorobutadiene	AA	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Acenaphthene-d10	50	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	2,3 dichloroaniline	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	2-Chloronaphthalene	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Dimethyl phthalate	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Acenaphthylene	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	2,6-Dinitrotoluene	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Acenaphthene	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	2,4-Dinitrophenol	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	4-Nitrophenol	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	2,4-Dinitrotoluene	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Diethyl phthalate	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Fluorene	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Phenanthrene-D10	50	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	n-nitrosodiphenylamine	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	2,4,6-Tribromophenol	80.0	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Hexachlorobenzene	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Pentachlorophenol	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	n-octadecane	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Phenanthrene	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Anthracene	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	carbazole	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Di-n-butyl phthalate	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Fluoranthene	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Chrysene-d12	50	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Benzidine	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Pyrene	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Butyl benzyl phthalate	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Benzo(a)anthracene	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Chrysene	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Di-n-octyl phthalate	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Perylene-D12	50	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Benzo(b)fluoranthene	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Benzo(k)fluoranthene	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Benzo(a)pyrene	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$625	Benzo(ghi)perylene	AA	ug/L	3.0
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PAHS	Acenaphthene	AA	ug/L	3
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PAHS	Acenaphthylene	AA	ug/L	3
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PAHS	Anthracene	AA	ug/L	3
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PAHS	Benz(a)anthracene	AA	ug/L	3
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PAHS	Benzo(a)pyrene	AA	ug/L	3
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PAHS	Benzo(b)fluoranthene	AA	ug/L	3
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PAHS	Benzo(g,h,i)perylene	AA	ug/L	3
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PAHS	Benzo(k)fluoranthene	AA	ug/L	3
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PAHS	Chrysene	AA	ug/L	3
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PAHS	Dibenz(a,h)anthracene	AA	ug/L	3
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PAHS	Fluoranthene	AA	ug/L	3
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PAHS	Fluorene	AA	ug/L	3
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PAHS	Indeno(1,2,3-cd)pyrene	AA	ug/L	3
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PAHS	Naphthalene	AA	ug/L	3
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PAHS	Phenanthrene	AA	ug/L	3
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PAHS	Pyrene	AA	ug/L	3
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PAHS	Surr: 2-Fluorobiphenyl	59.0	%	
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PAHS	Surr: 4-Terphenyl-d14	91.2	%	
AC06766	LM09	Little Miami Watershed	9	9/11/2012	10:10	\$PAHS	Surr: Nitrobenzene-d5	57.8	%	
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	350	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	E-COLI	E.coli (Colilert)	236	MPN	
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	TDS	Total Dissolved Solids	380	mg/L	
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	SO4	Sulfate	40.8	mg/L	12.5
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	CL	Chloride	80.9	mg/L	1.00
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	TSS	Tot. Suspended Solids	42	mg/L	2
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	SSC	Suspended Sediment Concentration	18.3	mg/L	5.2
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	HARD	Hardness as CaCO3	266	mg/l	
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	COD	COD	22	mg/L	
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	600	uS/cm	
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	20.25	Deg C	
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	PH_FLD	pH (Field)	8.35	S.U.	
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	4.70	mg/l	
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	660	uS/cm	
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	NO3NO2	Nitrate + Nitrite	1.41	mg/L	0.5
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	NO2	Nitrite as N	0.012	mg/l	0.005
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	NO3	Nitrate as N (calculated)	1.3980	mg/l	
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	Aldrin	AA	ug/L	0.02
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	Chlordane	AA	ug/L	0.100
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	Endosulfan II	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	Endrin	AA	ug/L	0.02
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	Surr: Decachlorobiphenyl	0.883	%	
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PEST	Surr: Tetrachloro-m-xylene	1.05	%	
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Chloromethane	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Bromomethane	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Chloroethane	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Acrolein	0	ug/L	100.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Acrylonitrile	0	ug/L	100.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Methylene Chloride	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Chloroform	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	1,2-Dichloroethane-d4	50.9	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Carbon Tetrachloride	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Benzene	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Trichloroethene	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Bromodichloromethane	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Dibromochloromethane	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Bromoform	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Tetrachloroethene	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Toluene	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Toluene-d8	44.8	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Chlorobenzene	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Ethylbenzene	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Bromofluorobenzene	57.4	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	2-Propanone	0	ug/L	60
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	2-Butanone	0	ug/L	60
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	Tetrahydrofuran	1	ug/L	
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	2-chloroethoxy ethene	0	ug/L	
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$624	TOTAL AMOUNT	343	ug/L	
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	pyridine	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	n-nitrosodimethylamine	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	2-Fluorophenol	49.0	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	aniline	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Phenol-d6	34.4	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Phenol	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	2-Chlorophenol	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	n-decane	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	o-cresol	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	acetophenone	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Hexachloroethane	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Naphthalene-D8	50	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Nitrobenzene-d5	79.2	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	p-cresol	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Nitrobenzene	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Isophorone	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Decafluorobiphenyl	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	2-Nitrophenol	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	2,4-Dimethylphenol	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	2,4-Dichlorophenol	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Naphthalene	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	1-Fluoronaphthalene	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	alpha terpineol	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Hexachlorobutadiene	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Acenaphthene-d10	50	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	2,3 dichloroaniline	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	2-Chloronaphthalene	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Dimethyl phthalate	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Acenaphthylene	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	2,6-Dinitrotoluene	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Acenaphthene	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	2,4-Dinitrophenol	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	4-Nitrophenol	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	2,4-Dinitrotoluene	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Diethyl phthalate	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Fluorene	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Phenanthrene-D10	50	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	n-nitrosodiphenylamine	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	2,4,6-Tribromophenol	95.1	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Hexachlorobenzene	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Pentachlorophenol	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	n-octadecane	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Phenanthrene	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Anthracene	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	carbazole	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Di-n-butyl phthalate	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Fluoranthene	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Chrysene-d12	50	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Benzidine	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Pyrene	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Butyl benzyl phthalate	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Benzo(a)anthracene	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Chrysene	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Di-n-octyl phthalate	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Perylene-D12	50	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Benzo(b)fluoranthene	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Benzo(k)fluoranthene	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Benzo(a)pyrene	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$625	Benzo(ghi)perylene	AA	ug/L	3.0
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PAHS	Acenaphthene	AA	ug/L	3
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PAHS	Acenaphthylene	AA	ug/L	3
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PAHS	Anthracene	AA	ug/L	3
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PAHS	Benz(a)anthracene	AA	ug/L	3
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PAHS	Benzo(a)pyrene	AA	ug/L	3
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PAHS	Benzo(b)fluoranthene	AA	ug/L	3
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PAHS	Benzo(g,h,i)perylene	AA	ug/L	3
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PAHS	Benzo(k)fluoranthene	AA	ug/L	3
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PAHS	Chrysene	AA	ug/L	3
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PAHS	Dibenz(a,h)anthracene	AA	ug/L	3
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PAHS	Fluoranthene	AA	ug/L	3
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PAHS	Fluorene	AA	ug/L	3
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PAHS	Indeno(1,2,3-cd)pyrene	AA	ug/L	3
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PAHS	Naphthalene	AA	ug/L	3
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PAHS	Phenanthrene	AA	ug/L	3
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PAHS	Pyrene	AA	ug/L	3
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PAHS	Surr: 2-Fluorobiphenyl	77.5	%	
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PAHS	Surr: 4-Terphenyl-d14	99.7	%	
AC06767	LM10	Little Miami Watershed	10 (3261-10)	9/11/2012	10:30	\$PAHS	Surr: Nitrobenzene-d5	79.2	%	
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	310	CFU/100mL	
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	E-COLI	E.coli (Colilert)	308	MPN	
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	TDS	Total Dissolved Solids	200	mg/L	
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	SO4	Sulfate	37.4	mg/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	CL	Chloride	63.2	mg/L	1.00
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	TSS	Tot. Suspended Solids	16	mg/L	2
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	SSC	Suspended Sediment Concentration	19.5	mg/L	5.4
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	HARD	Hardness as CaCO3	230	mg/l	
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	COD	COD	35	mg/L	
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	509	uS/cm	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	20.47	Deg C	
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	PH_FLD	pH (Field)	8.30	S.U.	
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	8.15	mg/l	
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	558	uS/cm	
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	NO3NO2	Nitrate + Nitrite	1.15	mg/L	0.5
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	NO2	Nitrite as N	0.012	mg/l	0.005
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	NO3	Nitrate as N (calculated)	1.1380	mg/l	
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	Aldrin	AA	ug/L	0.02
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	Chlordane	AA	ug/L	0.100
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	Endrin	AA	ug/L	0.02
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	Toxaphene	AA	ug/L	1.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	PCB 1242	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	Surr: Decachlorobiphenyl	0.912	%	
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PEST	Surr: Tetrachloro-m-xylene	0.936	%	
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	Chloromethane	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	Bromomethane	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	Chloroethane	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	Acrolein	0	ug/L	100.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	Acrylonitrile	0	ug/L	100.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	Methylene Chloride	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	Chloroform	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	1,2-Dichloroethane-d4	50.8	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	Benzene	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	Trichloroethene	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	Bromodichloromethane	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	Dibromochloromethane	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624	Bromoform	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624		Toluene	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624		Toluene-d8	44.9	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624		Chlorobenzene	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624		Ethylbenzene	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624		Bromofluorobenzene	57.6	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624		2-Propanone	0	ug/L	60
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624		2-Butanone	0	ug/L	60
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624		Tetrahydrofuran	0	ug/L	
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624		2-chloroethoxy ethene	0	ug/L	
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$624		TOTAL AMOUNT	335	ug/L	
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		pyridine	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		n-nitrosodimethylamine	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		2-Fluorophenol	43.0	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		aniline	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Phenol-d6	28.2	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Phenol	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		2-Chlorophenol	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		n-decane	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		o-cresol	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		acetophenone	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Hexachloroethane	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Naphthalene-D8	50	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Nitrobenzene-d5	68.5	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		p-cresol	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Nitrobenzene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Isophorone	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Decafluorobiphenyl	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		2-Nitrophenol	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		2,4-Dimethylphenol	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		2,4-Dichlorophenol	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Naphthalene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		1-Fluoronaphthalene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		alpha terpineol	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Hexachlorobutadiene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Acenaphthene-d10	50	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		2,3 dichloroaniline	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		2-Chloronaphthalene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Dimethyl phthalate	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Acenaphthylene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		2,6-Dinitrotoluene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Acenaphthene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		2,4-Dinitrophenol	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		4-Nitrophenol	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		2,4-Dinitrotoluene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Diethyl phthalate	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Fluorene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Phenanthrene-D10	50	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		n-nitrosodiphenylamine	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		1,2-Diphenylhydrazine	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		2,4,6-Tribromophenol	81.9	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Hexachlorobenzene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Pentachlorophenol	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		n-octadecane	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Phenanthrene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Anthracene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		carbazole	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Di-n-butyl phthalate	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Fluoranthene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Chrysene-d12	50	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Benzidine	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Pyrene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Butyl benzyl phthalate	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Benzo(a)anthracene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Chrysene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Di-n-octyl phthalate	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Perylene-D12	50	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Benzo(b)fluoranthene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Benzo(k)fluoranthene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Benzo(a)pyrene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$625		Benzo(ghi)perylene	AA	ug/L	3.0
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PAHS		Acenaphthene	AA	ug/L	3
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PAHS		Acenaphthylene	AA	ug/L	3
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PAHS		Anthracene	AA	ug/L	3
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PAHS		Benz(a)anthracene	AA	ug/L	3
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PAHS		Benzo(a)pyrene	AA	ug/L	3
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PAHS		Benzo(b)fluoranthene	AA	ug/L	3
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PAHS		Benzo(g,h,i)perylene	AA	ug/L	3

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PAHS	Benzo(k)fluoranthene	AA	ug/L	3
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PAHS	Chrysene	AA	ug/L	3
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PAHS	Dibenz(a,h)anthracene	AA	ug/L	3
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PAHS	Fluoranthene	AA	ug/L	3
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PAHS	Fluorene	AA	ug/L	3
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PAHS	Indeno(1,2,3-cd)pyrene	AA	ug/L	3
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PAHS	Naphthalene	AA	ug/L	3
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PAHS	Phenanthrene	AA	ug/L	3
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PAHS	Pyrene	AA	ug/L	3
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PAHS	Surr: 2-Fluorobiphenyl	69.5	%	
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PAHS	Surr: 4-Terphenyl-d14	91.5	%	
AC06768	LM11	Little Miami Watershed	11	9/11/2012	11:00	\$PAHS	Surr: Nitrobenzene-d5	68.5	%	
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	MF_CF	Fecal Coliform, Membrane Filter	220	CFU/100mL	
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	E-COLI	E.coli (Colilert)	248	MPN	
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	TDS	Total Dissolved Solids	280	mg/L	
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	SO4	Sulfate	36.3	mg/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	CL	Chloride	61.7	mg/L	1.00
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	TSS	Tot. Suspended Solids	20	mg/L	2
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	SSC	Suspended Sediment Concentration	17.4	mg/L	5.3
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	HARD	Hardness as CaCO3	250	mg/l	
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	COD	COD	40	mg/L	
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	498	uS/cm	
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	TEMP_FLD	Temperature (Field) Celsius	20.64	Deg C	
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	PH_FLD	pH (Field)	8.18	S.U.	
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	DO_FLD	Dissolved Oxygen (field) mg/L	7.58	mg/l	
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	543	uS/cm	
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	NO3NO2	Nitrate + Nitrite	1.03	mg/L	0.5
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	NO2	Nitrite as N	0.010	mg/l	0.005
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	NO3	Nitrate as N (calculated)	1.0200	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	Aldrin	AA	ug/L	0.02
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	Chlordane	AA	ug/L	0.100
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	Endrin	AA	ug/L	0.02
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	Surr: Decachlorobiphenyl	0.973	%	
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PEST	Surr: Tetrachloro-m-xylene	1.04	%	
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624	Chloromethane	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624	Bromomethane	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624	Chloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		Acrolein	0	ug/L	100.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		Acrylonitrile	0	ug/L	100.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		Methylene Chloride	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		Chloroform	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		1,2-Dichloroethane-d4	50.4	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		Benzene	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		Trichloroethene	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		Bromoform	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		Toluene	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		Toluene-d8	44.7	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		Chlorobenzene	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		Ethylbenzene	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		Bromofluorobenzene	57.7	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		2-Propanone	0	ug/L	60
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		2-Butanone	0	ug/L	60
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		Tetrahydrofuran	0	ug/L	
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$624		TOTAL AMOUNT	333	ug/L	
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		pyridine	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		n-nitrosodimethylamine	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		2-Fluorophenol	45.4	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		aniline	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Phenol-d6	32.1	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Phenol	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		2-Chlorophenol	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		n-decane	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		o-cresol	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		acetophenone	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Hexachloroethane	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Naphthalene-D8	50	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Nitrobenzene-d5	76.8	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		p-cresol	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Nitrobenzene	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Isophorone	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Decafluorobiphenyl	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		2-Nitrophenol	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		2,4-Dimethylphenol	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		2,4-Dichlorophenol	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Naphthalene	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		1-Fluoronaphthalene	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		alpha terpineol	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Hexachlorobutadiene	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Acenaphthene-d10	50	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		2,3 dichloroaniline	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		2-Chloronaphthalene	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Dimethyl phthalate	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Acenaphthylene	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		2,6-Dinitrotoluene	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Acenaphthene	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		2,4-Dinitrophenol	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		4-Nitrophenol	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		2,4-Dinitrotoluene	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Diethyl phthalate	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Fluorene	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Phenanthrene-D10	50	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		n-nitrosodiphenylamine	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		2,4,6-Tribromophenol	87.8	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Hexachlorobenzene	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Pentachlorophenol	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		n-octadecane	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Phenanthrene	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Anthracene	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		carbazole	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Di-n-butyl phthalate	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Fluoranthene	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Chrysene-d12	50	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Benzidine	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Pyrene	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Butyl benzyl phthalate	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Benzo(a)anthracene	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Chrysene	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Di-n-octyl phthalate	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Perylene-D12	50	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Benzo(b)fluoranthene	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Benzo(k)fluoranthene	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Benzo(a)pyrene	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$625		Benzo(ghi)perylene	AA	ug/L	3.0
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PAHS		Acenaphthene	AA	ug/L	3
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PAHS		Acenaphthylene	AA	ug/L	3
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PAHS		Anthracene	AA	ug/L	3
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PAHS		Benz(a)anthracene	AA	ug/L	3
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PAHS		Benzo(a)pyrene	AA	ug/L	3
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PAHS		Benzo(b)fluoranthene	AA	ug/L	3
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PAHS		Benzo(g,h,i)perylene	AA	ug/L	3
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PAHS		Benzo(k)fluoranthene	AA	ug/L	3
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PAHS		Chrysene	AA	ug/L	3
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PAHS		Dibenz(a,h)anthracene	AA	ug/L	3
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PAHS		Fluoranthene	AA	ug/L	3
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PAHS		Fluorene	AA	ug/L	3
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PAHS		Indeno(1,2,3-cd)pyrene	AA	ug/L	3
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PAHS		Naphthalene	AA	ug/L	3
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PAHS		Phenanthrene	AA	ug/L	3
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PAHS		Pyrene	AA	ug/L	3
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PAHS		Surr: 2-Fluorobiphenyl	74.7	%	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PAHS	Surr: 4-Terphenyl-d14	96.6	%	
AC06769	LM12	Little Miami Watershed	12 (3261-04)	9/11/2012	11:30	\$PAHS	Surr: Nitrobenzene-d5	76.8	%	
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	MF_CF	Fecal Coliform, Membrane Filter	260	CFU/100mL	
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	E-COLI	E.coli (Colilert)	276	MPN	
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	TDS	Total Dissolved Solids	270	mg/L	
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	SO4	Sulfate	36.9	mg/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	CL	Chloride	61.5	mg/L	1.00
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	TSS	Tot. Suspended Solids	14	mg/L	2
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	SSC	Suspended Sediment Concentration	17.8	mg/L	5.4
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	HARD	Hardness as CaCO3	232	mg/l	
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	COD	COD	53	mg/L	
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	513	uS/cm	
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	TEMP_FLD	Temperature (Field) Celsius	22.04	Deg C	
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	PH_FLD	pH (Field)	8.16	S.U.	
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	DO_FLD	Dissolved Oxygen (field) mg/L	8.50	mg/l	
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	544	uS/cm	
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	NH3	Ammonia as N	0	mg/L	0.5
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	NO3NO2	Nitrate + Nitrite	1.01	mg/L	0.5
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	NO2	Nitrite as N	0.011	mg/l	0.005
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	NO3	Nitrate as N (calculated)	0.9990	mg/l	
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	Aldrin	AA	ug/L	0.02
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	Chlordane	AA	ug/L	0.100
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	4,4-DDE	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	Endrin	AA	ug/L	0.02
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	Toxaphene	AA	ug/L	1.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	Surr: Decachlorobiphenyl	0.970	%	
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PEST	Surr: Tetrachloro-m-xylene	1.01	%	
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624	Chloromethane	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624	Bromomethane	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624	Chloroethane	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624	Acrolein	0	ug/L	100.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624	Acrylonitrile	0	ug/L	100.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624	Methylene Chloride	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624	Chloroform	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624	1,2-Dichloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		1,2-Dichloroethane-d4	51.0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		Benzene	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		Trichloroethene	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		Bromodichloromethane	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		Bromoform	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		Toluene	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		Toluene-d8	45.4	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		Chlorobenzene	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		Ethylbenzene	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		Bromofluorobenzene	55.0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		2-Propanone	0	ug/L	60
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		2-Butanone	0	ug/L	60
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		Tetrahydrofuran	1	ug/L	
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		2-chloroethoxy ethene	0	ug/L	
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$624		TOTAL AMOUNT	335	ug/L	
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625		1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625		pyridine	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625		n-nitrosodimethylamine	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625		2-Fluorophenol	11.4	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	aniline	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Phenol-d6	8.55	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Phenol	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	2-Chlorophenol	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	n-decane	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	o-cresol	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	acetophenone	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Hexachloroethane	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Naphthalene-D8	50	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Nitrobenzene-d5	18.2	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	p-cresol	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Nitrobenzene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Isophorone	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Decafluorobiphenyl	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	2-Nitrophenol	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	2,4-Dimethylphenol	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	2,4-Dichlorophenol	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Naphthalene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	1-Fluoronaphthalene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	alpha terpineol	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Hexachlorobutadiene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Acenaphthene-d10	50	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	2,3 dichloroaniline	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	2-Chloronaphthalene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Dimethyl phthalate	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Acenaphthylene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	2,6-Dinitrotoluene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Acenaphthene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	2,4-Dinitrophenol	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	4-Nitrophenol	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	2,4-Dinitrotoluene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Diethyl phthalate	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Fluorene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Phenanthrene-D10	50	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	n-nitrosodiphenylamine	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	2,4,6-Tribromophenol	26.0	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Hexachlorobenzene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Pentachlorophenol	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	n-octadecane	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Phenanthrene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Anthracene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	carbazole	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Di-n-butyl phthalate	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Fluoranthene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Chrysene-d12	50	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Benzidine	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Pyrene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Butyl benzyl phthalate	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Benzo(a)anthracene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Chrysene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Di-n-octyl phthalate	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625	Perylene-D12	50	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625		Benzo(b)fluoranthene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625		Benzo(k)fluoranthene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625		Benzo(a)pyrene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625		Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625		Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$625		Benzo(ghi)perylene	AA	ug/L	3.0
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PAHS		Acenaphthene	AA	ug/L	3
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PAHS		Acenaphthylene	AA	ug/L	3
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PAHS		Anthracene	AA	ug/L	3
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PAHS		Benz(a)anthracene	AA	ug/L	3
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PAHS		Benzo(a)pyrene	AA	ug/L	3
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PAHS		Benzo(b)fluoranthene	AA	ug/L	3
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PAHS		Benzo(g,h,i)perylene	AA	ug/L	3
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PAHS		Benzo(k)fluoranthene	AA	ug/L	3
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PAHS		Chrysene	AA	ug/L	3
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PAHS		Dibenz(a,h)anthracene	AA	ug/L	3
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PAHS		Fluoranthene	AA	ug/L	3
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PAHS		Fluorene	AA	ug/L	3
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PAHS		Indeno(1,2,3-cd)pyrene	AA	ug/L	3
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PAHS		Naphthalene	AA	ug/L	3
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PAHS		Phenanthrene	AA	ug/L	3
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PAHS		Pyrene	AA	ug/L	3
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PAHS		Surr: 2-Fluorobiphenyl	19.4	%	
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PAHS		Surr: 4-Terphenyl-d14	36.5	%	
AC06770	LM13	Little Miami Watershed	13 (3261-03)	9/11/2012	12:00	\$PAHS		Surr: Nitrobenzene-d5	18.2	%	
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	MF_CF		Fecal Coliform, Membrane Filter	270	CFU/100mL	
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	E-COLI		E.coli (Colilert)	291	MPN	
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	TDS		Total Dissolved Solids	260	mg/L	
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	BOD		Biochemical Oxygen Demand	2	mg/L	2
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	SO4		Sulfate	33.9	mg/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	CL		Chloride	59.2	mg/L	1.00
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	TSS		Tot. Suspended Solids	24	mg/L	2
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	SSC		Suspended Sediment Concentration	40.0	mg/L	5.3

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	HARD	Hardness as CaCO3	208	mg/l	
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	COD	COD	15	mg/L	
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	506	uS/cm	
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	TEMP_FLD	Temperature (Field) Celsius	22.16	Deg C	
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	PH_FLD	pH (Field)	8.11	S.U.	
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	DO_FLD	Dissolved Oxygen (field) mg/L	8.00	mg/l	
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	535	uS/cm	
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	NH3	Ammonia as N	0	mg/L	0.5
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	NO3NO2	Nitrate + Nitrite	0.967	mg/L	0.5
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	NO2	Nitrite as N	0.012	mg/l	0.005
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	NO3	Nitrate as N (calculated)	0.9550	mg/l	
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	Aldrin	AA	ug/L	0.02
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	Beta-BHC	AA	ug/L	0.02
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	Delta-BHC	AA	ug/L	0.02
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	Chlordane	AA	ug/L	0.100
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	4,4-DDE	AA	ug/L	0.02
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	Dieldrin	AA	ug/L	0.02
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	Endosulfan II	AA	ug/L	0.02
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	Endrin	AA	ug/L	0.02
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	Heptachlor	AA	ug/L	0.02
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	Toxaphene	AA	ug/L	1.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	PCB 1016	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	PCB 1221	AA	ug/L	0.5
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	PCB 1232	AA	ug/L	0.5
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	PCB 1242	AA	ug/L	0.5
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	PCB 1248	AA	ug/L	0.5
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	PCB 1254	AA	ug/L	0.5
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	PCB 1260	AA	ug/L	0.5
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	Surr: Decachlorobiphenyl	0.909	%	
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PEST	Surr: Tetrachloro-m-xylene	0.990	%	
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	Chloromethane	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	Vinyl Chloride	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	Bromomethane	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	Chloroethane	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	Acrolein	0	ug/L	100.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	Acrylonitrile	0	ug/L	100.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	Methylene Chloride	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	Chloroform	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	1,2-Dichloroethane-d4	52.8	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	Benzene	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	Trichloroethene	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	Bromodichloromethane	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624		Dibromochloromethane	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624		Bromoform	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624		Tetrachloroethene	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624		Toluene	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624		Toluene-d8	44.5	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624		Chlorobenzene	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624		Ethylbenzene	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624		Bromofluorobenzene	53.9	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624		2-Propanone	0	ug/L	60
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624		2-Butanone	0	ug/L	60
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624		Tetrahydrofuran	1	ug/L	
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624		2-chloroethoxy ethene	0	ug/L	
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$624		TOTAL AMOUNT	332	ug/L	
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		pyridine	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		n-nitrosodimethylamine	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		2-Fluorophenol	12.7	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		aniline	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Phenol-d6	9.43	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Phenol	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		2-Chlorophenol	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		n-decane	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		o-cresol	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		acetophenone	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		n-nitrosodi-n-propylamine	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Hexachloroethane	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Naphthalene-D8	50	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Nitrobenzene-d5	20.9	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		p-cresol	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Nitrobenzene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Isophorone	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Decafluorobiphenyl	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		2-Nitrophenol	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		2,4-Dimethylphenol	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		2,4-Dichlorophenol	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Naphthalene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		1-Fluoronaphthalene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		alpha terpineol	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Hexachlorobutadiene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Acenaphthene-d10	50	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		2,3 dichloroaniline	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		2-Chloronaphthalene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Dimethyl phthalate	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Acenaphthylene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		2,6-Dinitrotoluene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Acenaphthene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		2,4-Dinitrophenol	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		4-Nitrophenol	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		2,4-Dinitrotoluene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Diethyl phthalate	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Fluorene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Phenanthrene-D10	50	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		n-nitrosodiphenylamine	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		2,4,6-Tribromophenol	28.6	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Hexachlorobenzene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Pentachlorophenol	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		n-octadecane	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Phenanthrene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Anthracene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		carbazole	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Di-n-butyl phthalate	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Fluoranthene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Chrysene-d12	50	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Benzidine	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Pyrene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Butyl benzyl phthalate	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Benzo(a)anthracene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Chrysene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Di-n-octyl phthalate	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Perylene-D12	50	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Benzo(b)fluoranthene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Benzo(k)fluoranthene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Benzo(a)pyrene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$625		Benzo(ghi)perylene	AA	ug/L	3.0
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PAHS		Acenaphthene	AA	ug/L	3
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PAHS		Acenaphthylene	AA	ug/L	3
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PAHS		Anthracene	AA	ug/L	3
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PAHS		Benz(a)anthracene	AA	ug/L	3

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PAHS	Benzo(a)pyrene	AA	ug/L	3
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PAHS	Benzo(b)fluoranthene	AA	ug/L	3
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PAHS	Benzo(g,h,i)perylene	AA	ug/L	3
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PAHS	Benzo(k)fluoranthene	AA	ug/L	3
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PAHS	Chrysene	AA	ug/L	3
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PAHS	Dibenz(a,h)anthracene	AA	ug/L	3
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PAHS	Fluoranthene	AA	ug/L	3
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PAHS	Fluorene	AA	ug/L	3
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PAHS	Indeno(1,2,3-cd)pyrene	AA	ug/L	3
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PAHS	Naphthalene	AA	ug/L	3
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PAHS	Phenanthrene	AA	ug/L	3
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PAHS	Pyrene	AA	ug/L	3
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PAHS	Surr: 2-Fluorobiphenyl	23.1	%	
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PAHS	Surr: 4-Terphenyl-d14	38.5	%	
AC06771	LM14	Little Miami Watershed	14	9/11/2012	13:15	\$PAHS	Surr: Nitrobenzene-d5	20.9	%	
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	MF_CF	Fecal Coliform, Membrane Filter	230	CFU/100mL	
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	E-COLI	E.coli (Colilert)	161	MPN	
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	TDS	Total Dissolved Solids	470	mg/L	
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	SO4	Sulfate	29.0	mg/L	12.5
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	CL	Chloride	43.1	mg/L	1.00
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	TSS	Tot. Suspended Solids	10	mg/L	2
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	HARD	Hardness as CaCO3	366	mg/l	
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	COD	COD	36	mg/L	
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	536	uS/cm	
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	TEMP_FLD	Temperature (Field) Celsius	14.82	Deg C	
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	PH_FLD	pH (Field)	7.43	S.U.	
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	DO_FLD	Dissolved Oxygen (field) mg/L	4.55	mg/l	
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	665	uS/cm	
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$ICP	Antimony	0.00	mg/L	0.006
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$ICP	Arsenic	0.00	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$ICP	Barium	0.0616	mg/L	0.003
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$ICP	Calcium	115	mg/L	0.066
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$ICP	Chromium	0.00	mg/L	0.006
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$ICP	Copper	0.00	mg/L	0.006
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$ICP	Iron	0.122	mg/L	0.018
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$ICP	Lead	0.00	mg/L	0.006
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$ICP	Magnesium	21.1	mg/L	0.021
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$ICP	Manganese	0.0727	mg/L	0.009
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$ICP	Nickel	0.00	mg/L	0.003
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$ICP	Selenium	0.0345	mg/L	0.009
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$ICP	Silver	0.00	mg/L	0.003
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$ICP	Strontium	0.250	mg/L	0.009
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$ICP	Thallium	0.0158	mg/L	0.012
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$ICP	Tin	0.00	mg/L	0.006
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$ICP	Zinc	0.00	mg/L	0.006
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	PB_FU	Lead by Furnace	0.12	ug/L	1.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	AS_FU	Arsenic by Furnace	0.40	ug/L	1.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	CU_FU	Copper by Furnace	AA	ug/L	1
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	NH3	Ammonia as N	0	mg/L	0.5
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	NO2	Nitrite as N	0.006	mg/l	0.005
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	NO3	Nitrate as N (calculated)	AW	mg/l	
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	Aldrin	AA	ug/L	0.02
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	Beta-BHC	AA	ug/L	0.02



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	Delta-BHC	AA	ug/L	0.02
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	Chlordane	AA	ug/L	0.100
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	4,4-DDE	AA	ug/L	0.02
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	Dieldrin	AA	ug/L	0.02
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	Endosulfan II	AA	ug/L	0.02
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	Endrin	AA	ug/L	0.02
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	Heptachlor	AA	ug/L	0.02
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	Toxaphene	AA	ug/L	1.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	PCB 1016	AA	ug/L	0.5
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	PCB 1221	AA	ug/L	0.5
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	PCB 1232	AA	ug/L	0.5
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	PCB 1242	AA	ug/L	0.5
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	PCB 1248	AA	ug/L	0.5
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	PCB 1254	AA	ug/L	0.5
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	PCB 1260	AA	ug/L	0.5
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	Surr: Decachlorobiphenyl	0.867	%	
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PEST	Surr: Tetrachloro-m-xylene	0.882	%	
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624	Chloromethane	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624	Vinyl Chloride	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624	Bromomethane	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624	Chloroethane	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624	Acrolein	0	ug/L	100.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624	Acrylonitrile	0	ug/L	100.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		Methylene Chloride	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		Chloroform	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		1,2-Dichloroethane-d4	44.0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		Benzene	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		Trichloroethene	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		Bromodichloromethane	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		Dibromochloromethane	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		Bromoform	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		Tetrachloroethene	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		Toluene	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		Toluene-d8	42.1	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		Chlorobenzene	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		Ethylbenzene	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		Bromofluorobenzene	66.2	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		2-Propanone	0	ug/L	60
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		2-Butanone	0	ug/L	60
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624		Tetrahydrofuran	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624	2-chloroethoxy ethene	0	ug/L	
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$624	TOTAL AMOUNT	302	ug/L	
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	pyridine	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	n-nitrosodimethylamine	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	2-Fluorophenol	13.7	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	aniline	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Phenol-d6	10.3	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Phenol	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	2-Chlorophenol	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	n-decane	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	o-cresol	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	acetophenone	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Hexachloroethane	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Naphthalene-D8	50	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Nitrobenzene-d5	23.5	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	p-cresol	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Nitrobenzene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Isophorone	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Decafluorobiphenyl	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	2-Nitrophenol	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	2,4-Dimethylphenol	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	2,4-Dichlorophenol	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Naphthalene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	1-Fluoronaphthalene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	alpha terpineol	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Hexachlorobutadiene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	4-Chloro-3-methylphenol	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Acenaphthene-d10	50	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	2,3 dichloroaniline	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	2-Chloronaphthalene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Dimethyl phthalate	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Acenaphthylene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	2,6-Dinitrotoluene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Acenaphthene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	2,4-Dinitrophenol	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	4-Nitrophenol	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	2,4-Dinitrotoluene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Diethyl phthalate	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Fluorene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Phenanthrene-D10	50	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	n-nitrosodiphenylamine	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	2,4,6-Tribromophenol	24.5	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Hexachlorobenzene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Pentachlorophenol	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	n-octadecane	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Phenanthrene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Anthracene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	carbazole	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Di-n-butyl phthalate	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Fluoranthene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Chrysene-d12	50	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Benzidine	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Pyrene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625	Butyl benzyl phthalate	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625		3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625		Benzo(a)anthracene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625		Chrysene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625		bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625		Di-n-octyl phthalate	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625		Perylene-D12	50	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625		Benzo(b)fluoranthene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625		Benzo(k)fluoranthene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625		Benzo(a)pyrene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625		Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625		Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$625		Benzo(ghi)perylene	AA	ug/L	3.0
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PAHS		Acenaphthene	AA	ug/L	3
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PAHS		Acenaphthylene	AA	ug/L	3
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PAHS		Anthracene	AA	ug/L	3
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PAHS		Benz(a)anthracene	AA	ug/L	3
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PAHS		Benzo(a)pyrene	AA	ug/L	3
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PAHS		Benzo(b)fluoranthene	AA	ug/L	3
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PAHS		Benzo(g,h,i)perylene	AA	ug/L	3
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PAHS		Benzo(k)fluoranthene	AA	ug/L	3
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PAHS		Chrysene	AA	ug/L	3
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PAHS		Dibenz(a,h)anthracene	AA	ug/L	3
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PAHS		Fluoranthene	AA	ug/L	3
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PAHS		Fluorene	AA	ug/L	3
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PAHS		Indeno(1,2,3-cd)pyrene	AA	ug/L	3
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PAHS		Naphthalene	AA	ug/L	3
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PAHS		Phenanthrene	AA	ug/L	3
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PAHS		Pyrene	AA	ug/L	3
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PAHS		Surr: 2-Fluorobiphenyl	25.0	%	
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PAHS		Surr: 4-Terphenyl-d14	42.5	%	
AC06845	RF09	Little Miami Watershed	09	9/12/2012	08:50	\$PAHS		Surr: Nitrobenzene-d5	23.5	%	
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	MF_CF		Fecal Coliform, Membrane Filter	136	CFU/100mL	
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	E-COLI		E.coli (Colilert)	138	MPN	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	TDS	Total Dissolved Solids	340	mg/L	
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	SO4	Sulfate	44.5	mg/L	12.5
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	CL	Chloride	53.1	mg/L	1.00
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	TSS	Tot. Suspended Solids	4	mg/L	2
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	SSC	Suspended Sediment Concentration	10.5	mg/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	HARD	Hardness as CaCO3	238	mg/l	
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	COD	COD	55	mg/L	
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	447	uS/cm	
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	TEMP_FLD	Temperature (Field) Celsius	17.45	Deg C	
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	PH_FLD	pH (Field)	7.82	S.U.	
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	DO_FLD	Dissolved Oxygen (field) mg/L	7.47	mg/l	
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	523	uS/cm	
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$ICP	Aluminum	0.00	mg/L	0.348
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$ICP	Antimony	0.00	mg/L	0.006
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$ICP	Arsenic	0.00	mg/L	0.012
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$ICP	Barium	0.0573	mg/L	0.003
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$ICP	Calcium	71.8	mg/L	0.066
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$ICP	Chromium	0.00	mg/L	0.006
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$ICP	Copper	0.00	mg/L	0.006
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$ICP	Iron	0.571	mg/L	0.018
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$ICP	Lead	0.00	mg/L	0.006
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$ICP	Magnesium	17.4	mg/L	0.021
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$ICP	Manganese	0.192	mg/L	0.009
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$ICP	Nickel	0.00	mg/L	0.003
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$ICP	Selenium	0.0286	mg/L	0.009
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$ICP	Silver	0.00	mg/L	0.003
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$ICP	Strontium	0.262	mg/L	0.009
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$ICP	Thallium	0.00	mg/L	0.012
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$ICP	Tin	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$ICP	Zinc	0.00	mg/L	0.006
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	PB_FU	Lead by Furnace	0.95	ug/L	1.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	AS_FU	Arsenic by Furnace	1.59	ug/L	1.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	CU_FU	Copper by Furnace	2.8	ug/L	1
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	NH3	Ammonia as N	0	mg/L	0.5
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	NO2	Nitrite as N	0.006	mg/l	0.005
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	NO3	Nitrate as N (calculated)	AW	mg/l	
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	Aldrin	AA	ug/L	0.02
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	Beta-BHC	AA	ug/L	0.02
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	Delta-BHC	AA	ug/L	0.02
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	Chlordane	AA	ug/L	0.100
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	4,4-DDE	AA	ug/L	0.02
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	Dieldrin	AA	ug/L	0.02
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	Endosulfan II	AA	ug/L	0.02
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	Endrin	AA	ug/L	0.02
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	Heptachlor	AA	ug/L	0.02
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	Toxaphene	AA	ug/L	1.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	PCB 1016	AA	ug/L	0.5
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	PCB 1221	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	PCB 1232	AA	ug/L	0.5
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	PCB 1242	AA	ug/L	0.5
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	PCB 1248	AA	ug/L	0.5
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	PCB 1254	AA	ug/L	0.5
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	PCB 1260	AA	ug/L	0.5
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	Surr: Decachlorobiphenyl	0.896	%	
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PEST	Surr: Tetrachloro-m-xylene	1.08	%	
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Chloromethane	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Vinyl Chloride	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Bromomethane	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Chloroethane	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Acrolein	0	ug/L	100.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Acrylonitrile	0	ug/L	100.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Methylene Chloride	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Chloroform	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	1,2-Dichloroethane-d4	44.0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Benzene	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Trichloroethene	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Bromodichloromethane	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	1,1,2-Trichloroethane	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Dibromochloromethane	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Bromoform	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Tetrachloroethene	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Toluene	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Toluene-d8	41.8	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Chlorobenzene	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Ethylbenzene	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Bromofluorobenzene	70.7	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	2-Propanone	0	ug/L	60
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	2-Butanone	0	ug/L	60
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	Tetrahydrofuran	0	ug/L	
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	2-chloroethoxy ethene	0	ug/L	
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$624	TOTAL AMOUNT	306	ug/L	
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	pyridine	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	n-nitrosodimethylamine	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	2-Fluorophenol	11.0	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	aniline	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Phenol-d6	7.96	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Phenol	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	2-Chlorophenol	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	n-decane	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	o-cresol	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	acetophenone	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Hexachloroethane	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Naphthalene-D8	50	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Nitrobenzene-d5	18.0	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	p-cresol	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Nitrobenzene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Isophorone	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Decafluorobiphenyl	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	2-Nitrophenol	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	2,4-Dimethylphenol	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	2,4-Dichlorophenol	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Naphthalene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	1-Fluoronaphthalene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	alpha terpineol	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Hexachlorobutadiene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Acenaphthene-d10	50	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	2,3 dichloroaniline	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	2-Chloronaphthalene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Dimethyl phthalate	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Acenaphthylene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	2,6-Dinitrotoluene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Acenaphthene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	2,4-Dinitrophenol	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	4-Nitrophenol	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	2,4-Dinitrotoluene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Diethyl phthalate	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Fluorene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Phenanthrene-D10	50	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	4,6-Dinitro-o-cresol	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	n-nitrosodiphenylamine	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	2,4,6-Tribromophenol	27.6	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Hexachlorobenzene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Pentachlorophenol	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	n-octadecane	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Phenanthrene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Anthracene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	carbazole	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Di-n-butyl phthalate	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Fluoranthene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Chrysene-d12	50	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Benzidine	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Pyrene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Butyl benzyl phthalate	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Benzo(a)anthracene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Chrysene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Di-n-octyl phthalate	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Perylene-D12	50	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Benzo(b)fluoranthene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Benzo(k)fluoranthene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Benzo(a)pyrene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$625	Benzo(ghi)perylene	AA	ug/L	3.0
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PAHS	Acenaphthene	AA	ug/L	3
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PAHS	Acenaphthylene	AA	ug/L	3
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PAHS	Anthracene	AA	ug/L	3
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PAHS	Benz(a)anthracene	AA	ug/L	3
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PAHS	Benzo(a)pyrene	AA	ug/L	3

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PAHS	Benzo(b)fluoranthene	AA	ug/L	3
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PAHS	Benzo(g,h,i)perylene	AA	ug/L	3
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PAHS	Benzo(k)fluoranthene	AA	ug/L	3
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PAHS	Chrysene	AA	ug/L	3
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PAHS	Dibenz(a,h)anthracene	AA	ug/L	3
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PAHS	Fluoranthene	AA	ug/L	3
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PAHS	Fluorene	AA	ug/L	3
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PAHS	Indeno(1,2,3-cd)pyrene	AA	ug/L	3
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PAHS	Naphthalene	AA	ug/L	3
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PAHS	Phenanthrene	AA	ug/L	3
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PAHS	Pyrene	AA	ug/L	3
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PAHS	Surr: 2-Fluorobiphenyl	22.9	%	
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PAHS	Surr: 4-Terphenyl-d14	42.7	%	
AC06846	RF08	Little Miami Watershed	08	9/12/2012	09:15	\$PAHS	Surr: Nitrobenzene-d5	18.0	%	
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	MF_CF	Fecal Coliform, Membrane Filter	107	CFU/100mL	
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	E-COLI	E.coli (Colilert)	111	MPN	
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	TDS	Total Dissolved Solids	400	mg/L	
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	SO4	Sulfate	31.2	mg/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	CL	Chloride	23.0	mg/L	1.00
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	TSS	Tot. Suspended Solids	6	mg/L	2
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	HARD	Hardness as CaCO3	334	mg/l	
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	COD	COD	37	mg/L	
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	478	uS/cm	
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	TEMP_FLD	Temperature (Field) Celsius	15.84	Deg C	
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	PH_FLD	pH (Field)	7.44	S.U.	
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	DO_FLD	Dissolved Oxygen (field) mg/L	5.10	mg/l	
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	579	uS/cm	
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$ICP	Antimony	0.00	mg/L	0.006
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$ICP	Arsenic	0.0126	mg/L	0.012
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$ICP	Barium	0.0862	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$ICP	Calcium	96.2	mg/L	0.066
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$ICP	Chromium	0.00	mg/L	0.006
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$ICP	Copper	0.00	mg/L	0.006
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$ICP	Iron	0.0340	mg/L	0.018
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$ICP	Lead	0.00	mg/L	0.006
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$ICP	Magnesium	26.7	mg/L	0.021
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$ICP	Manganese	0.00	mg/L	0.009
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$ICP	Nickel	0.00	mg/L	0.003
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$ICP	Selenium	0.0121	mg/L	0.009
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$ICP	Silver	0.00	mg/L	0.003
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$ICP	Strontium	0.165	mg/L	0.009
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$ICP	Thallium	0.00	mg/L	0.012
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$ICP	Tin	0.00	mg/L	0.006
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$ICP	Zinc	0.00	mg/L	0.006
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	PB_FU	Lead by Furnace	0.06	ug/L	1.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	AS_FU	Arsenic by Furnace	0.51	ug/L	1.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	CU_FU	Copper by Furnace	AA	ug/L	1
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	NH3	Ammonia as N	0	mg/L	0.5
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	NO2	Nitrite as N	0.006	mg/l	0.005
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	NO3	Nitrate as N (calculated)	AW	mg/l	
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	Aldrin	AA	ug/L	0.02
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	Beta-BHC	AA	ug/L	0.02
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	Delta-BHC	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	Chlordane	AA	ug/L	0.100
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	4,4-DDE	AA	ug/L	0.02
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	Dieldrin	AA	ug/L	0.02
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	Endosulfan II	AA	ug/L	0.02
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	Endrin	AA	ug/L	0.02
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	Heptachlor	AA	ug/L	0.02
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	Toxaphene	AA	ug/L	1.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	PCB 1016	AA	ug/L	0.5
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	PCB 1221	AA	ug/L	0.5
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	PCB 1232	AA	ug/L	0.5
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	PCB 1242	AA	ug/L	0.5
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	PCB 1248	AA	ug/L	0.5
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	PCB 1254	AA	ug/L	0.5
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	PCB 1260	AA	ug/L	0.5
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	Surr: Decachlorobiphenyl	0.824	%	
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PEST	Surr: Tetrachloro-m-xylene	1.03	%	
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Chloromethane	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Vinyl Chloride	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Bromomethane	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Chloroethane	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Acrolein	0	ug/L	100.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Acrylonitrile	0	ug/L	100.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Methylene Chloride	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Chloroform	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	1,2-Dichloroethane-d4	45.3	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Benzene	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Trichloroethene	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Bromodichloromethane	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Dibromochloromethane	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Bromoform	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Tetrachloroethene	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Toluene	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Toluene-d8	42.3	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Chlorobenzene	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Ethylbenzene	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Bromofluorobenzene	68.3	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	2-Propanone	0	ug/L	60
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	2-Butanone	0	ug/L	60
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	Tetrahydrofuran	0	ug/L	
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	2-chloroethoxy ethene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$624	TOTAL AMOUNT	306	ug/L	
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	pyridine	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	n-nitrosodimethylamine	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	2-Fluorophenol	12.2	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	aniline	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Phenol-d6	9.36	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Phenol	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	2-Chlorophenol	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	n-decane	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	o-cresol	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	acetophenone	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Hexachloroethane	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Naphthalene-D8	50	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Nitrobenzene-d5	24.0	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	p-cresol	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Nitrobenzene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Isophorone	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Decafluorobiphenyl	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	2-Nitrophenol	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	2,4-Dimethylphenol	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	2,4-Dichlorophenol	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Naphthalene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	1-Fluoronaphthalene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	alpha terpineol	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Hexachlorobutadiene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Acenaphthene-d10	50	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	2,3 dichloroaniline	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	2-Chloronaphthalene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Dimethyl phthalate	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Acenaphthylene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	2,6-Dinitrotoluene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Acenaphthene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	2,4-Dinitrophenol	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	4-Nitrophenol	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	2,4-Dinitrotoluene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Diethyl phthalate	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Fluorene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Phenanthrene-D10	50	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	n-nitrosodiphenylamine	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	2,4,6-Tribromophenol	18.7	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Hexachlorobenzene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Pentachlorophenol	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	n-octadecane	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Phenanthrene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Anthracene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	carbazole	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Di-n-butyl phthalate	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Fluoranthene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Chrysene-d12	50	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Benzidine	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Pyrene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	Butyl benzyl phthalate	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625	3,3-Dichlorobenzidine	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625		Benzo(a)anthracene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625		Chrysene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625		bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625		Di-n-octyl phthalate	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625		Perylene-D12	50	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625		Benzo(b)fluoranthene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625		Benzo(k)fluoranthene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625		Benzo(a)pyrene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625		Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625		Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$625		Benzo(ghi)perylene	AA	ug/L	3.0
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PAHS		Acenaphthene	AA	ug/L	3.00
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PAHS		Acenaphthylene	AA	ug/L	3.00
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PAHS		Anthracene	AA	ug/L	3.00
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PAHS		Benz(a)anthracene	AA	ug/L	3.00
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PAHS		Benzo(a)pyrene	AA	ug/L	3.00
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PAHS		Benzo(b)fluoranthene	AA	ug/L	3.00
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PAHS		Benzo(g,h,i)perylene	AA	ug/L	3.00
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PAHS		Benzo(k)fluoranthene	AA	ug/L	3.00
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PAHS		Chrysene	AA	ug/L	3.00
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PAHS		Dibenz(a,h)anthracene	AA	ug/L	3.00
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PAHS		Fluoranthene	AA	ug/L	3.00
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PAHS		Fluorene	AA	ug/L	3.00
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PAHS		Indeno(1,2,3-cd)pyrene	AA	ug/L	3.00
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PAHS		Naphthalene	AA	ug/L	3.00
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PAHS		Phenanthrene	AA	ug/L	3.00
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PAHS		Pyrene	AA	ug/L	3.00
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PAHS		Surr: 2-Fluorobiphenyl	24.1	%	
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PAHS		Surr: 4-Terphenyl-d14	42.7	%	
AC06847	RF10	Little Miami Watershed	10	9/12/2012	09:40	\$PAHS		Surr: Nitrobenzene-d5	24.0	%	
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	MF_CF		Fecal Coliform, Membrane Filter	210	CFU/100mL	
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	E-COLI		E.coli (Colilert)	205	MPN	
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	TDS		Total Dissolved Solids	650	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	SO4	Sulfate	61.5	mg/L	25.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	CL	Chloride	327	mg/L	4.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	TSS	Tot. Suspended Solids	8	mg/L	2
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	SSC	Suspended Sediment Concentration	12.5	mg/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	HARD	Hardness as CaCO3	368	mg/l	
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	COD	COD	50	mg/L	
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	828	uS/cm	
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	TEMP_FLD	Temperature (Field) Celsius	17.34	Deg C	
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	PH_FLD	pH (Field)	7.77	S.U.	
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	DO_FLD	Dissolved Oxygen (field) mg/L	8.10	mg/l	
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	971	uS/cm	
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$ICP	Aluminum	0.00	mg/L	0.348
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$ICP	Antimony	0.00	mg/L	0.006
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$ICP	Arsenic	0.00	mg/L	0.012
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$ICP	Barium	0.0656	mg/L	0.003
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$ICP	Calcium	114	mg/L	0.066
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$ICP	Chromium	0.00	mg/L	0.006
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$ICP	Copper	0.00	mg/L	0.006
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$ICP	Iron	0.119	mg/L	0.018
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$ICP	Lead	0.00	mg/L	0.006
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$ICP	Magnesium	26.1	mg/L	0.021
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$ICP	Manganese	0.0227	mg/L	0.009
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$ICP	Nickel	0.00	mg/L	0.003
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$ICP	Selenium	0.0342	mg/L	0.009
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$ICP	Silver	0.00	mg/L	0.003
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$ICP	Strontium	0.431	mg/L	0.009
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$ICP	Thallium	0.00	mg/L	0.012
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$ICP	Tin	0.00	mg/L	0.006
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$ICP	Vanadium	0.00	mg/L	0.018

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$ICP	Zinc	0.00	mg/L	0.006
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	PB_FU	Lead by Furnace	0.29	ug/L	1.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	AS_FU	Arsenic by Furnace	1.21	ug/L	1.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	CU_FU	Copper by Furnace	3.9	ug/L	1
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	NH3	Ammonia as N	0	mg/L	0.5
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	NO3NO2	Nitrate + Nitrite	1.16	mg/L	0.5
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	TKN	Total Kjeldahl Nitrogen	1.162	mg/L	0.5
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	NO2	Nitrite as N	0	mg/l	0.005
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	NO3	Nitrate as N (calculated)	1.1600	mg/l	
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	Aldrin	AA	ug/L	0.02
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	Beta-BHC	AA	ug/L	0.02
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	Delta-BHC	AA	ug/L	0.02
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	Chlordane	AA	ug/L	0.100
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	4,4-DDE	AA	ug/L	0.02
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	Dieldrin	AA	ug/L	0.02
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	Endosulfan II	AA	ug/L	0.02
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	Endrin	AA	ug/L	0.02
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	Heptachlor	AA	ug/L	0.02
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	Toxaphene	AA	ug/L	1.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	PCB 1016	AA	ug/L	0.5
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	PCB 1221	AA	ug/L	0.5
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	PCB 1232	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	PCB 1242	AA	ug/L	0.5
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	PCB 1248	AA	ug/L	0.5
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	PCB 1254	AA	ug/L	0.5
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	PCB 1260	AA	ug/L	0.5
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	Surr: Decachlorobiphenyl	0.831	%	
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PEST	Surr: Tetrachloro-m-xylene	1.01	%	
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	Chloromethane	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	Vinyl Chloride	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	Bromomethane	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	Chloroethane	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	Acrolein	0	ug/L	100.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	Acrylonitrile	0	ug/L	100.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	Methylene Chloride	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	Chloroform	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	1,2-Dichloroethane-d4	45.1	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	Benzene	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	Trichloroethene	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	Bromodichloromethane	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624	Dibromochloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624		Bromoform	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624		Tetrachloroethene	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624		Toluene	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624		Toluene-d8	41.8	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624		Chlorobenzene	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624		Ethylbenzene	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624		Bromofluorobenzene	68.1	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624		2-Propanone	0	ug/L	60
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624		2-Butanone	0	ug/L	60
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624		Tetrahydrofuran	0	ug/L	
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624		2-chloroethoxy ethene	0	ug/L	
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$624		TOTAL AMOUNT	305	ug/L	
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		pyridine	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		n-nitrosodimethylamine	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		2-Fluorophenol	9.62	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		aniline	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Phenol-d6	6.47	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Phenol	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		2-Chlorophenol	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		n-decane	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		o-cresol	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		acetophenone	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Hexachloroethane	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Naphthalene-D8	50	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Nitrobenzene-d5	15.8	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		p-cresol	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Nitrobenzene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Isophorone	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Decafluorobiphenyl	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		2-Nitrophenol	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		2,4-Dimethylphenol	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		2,4-Dichlorophenol	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Naphthalene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		1-Fluoronaphthalene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		alpha terpineol	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Hexachlorobutadiene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Acenaphthene-d10	50	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		2,3 dichloroaniline	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		2-Chloronaphthalene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Dimethyl phthalate	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Acenaphthylene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		2,6-Dinitrotoluene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Acenaphthene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		2,4-Dinitrophenol	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		4-Nitrophenol	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		2,4-Dinitrotoluene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Diethyl phthalate	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Fluorene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Phenanthrene-D10	50	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		n-nitrosodiphenylamine	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		2,4,6-Tribromophenol	16.2	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Hexachlorobenzene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Pentachlorophenol	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		n-octadecane	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Phenanthrene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Anthracene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		carbazole	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Di-n-butyl phthalate	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Fluoranthene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Chrysene-d12	50	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Benzidine	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Pyrene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Butyl benzyl phthalate	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Benzo(a)anthracene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Chrysene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Di-n-octyl phthalate	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Perylene-D12	50	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Benzo(b)fluoranthene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Benzo(k)fluoranthene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Benzo(a)pyrene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$625		Benzo(ghi)perylene	AA	ug/L	3.0
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PAHS		Acenaphthene	AA	ug/L	3
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PAHS		Acenaphthylene	AA	ug/L	3
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PAHS		Anthracene	AA	ug/L	3
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PAHS		Benz(a)anthracene	AA	ug/L	3
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PAHS		Benzo(a)pyrene	AA	ug/L	3
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PAHS		Benzo(b)fluoranthene	AA	ug/L	3



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PAHS	Benzo(g,h,i)perylene	AA	ug/L	3
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PAHS	Benzo(k)fluoranthene	AA	ug/L	3
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PAHS	Chrysene	AA	ug/L	3
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PAHS	Dibenz(a,h)anthracene	AA	ug/L	3
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PAHS	Fluoranthene	AA	ug/L	3
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PAHS	Fluorene	AA	ug/L	3
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PAHS	Indeno(1,2,3-cd)pyrene	AA	ug/L	3
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PAHS	Naphthalene	AA	ug/L	3
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PAHS	Phenanthrene	AA	ug/L	3
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PAHS	Pyrene	AA	ug/L	3
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PAHS	Surr: 2-Fluorobiphenyl	17.5	%	
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PAHS	Surr: 4-Terphenyl-d14	27.3	%	
AC06848	LM105	Little Miami Watershed	105	9/12/2012	10:45	\$PAHS	Surr: Nitrobenzene-d5	15.8	%	
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	240	CFU/100mL	
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	E-COLI	E.coli (Colilert)	201	MPN	
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	TDS	Total Dissolved Solids	460	mg/L	
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	SO4	Sulfate	48.4	mg/L	25.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	CL	Chloride	71.2	mg/L	1.00
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	TSS	Tot. Suspended Solids	30	mg/L	2
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	SSC	Suspended Sediment Concentration	6.5	mg/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	HARD	Hardness as CaCO3	270	mg/l	
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	COD	COD	46	mg/L	
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	520	uS/cm	
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	18.41	Deg C	
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	PH_FLD	pH (Field)	7.94	S.U.	
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	8.72	mg/l	
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	595	uS/cm	
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$ICP	Antimony	0.00	mg/L	0.006
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$ICP	Barium	0.0363	mg/L	0.003
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$ICP	Beryllium	0.00	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$ICP	Calcium	89.4	mg/L	0.066
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$ICP	Chromium	0.00	mg/L	0.006
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$ICP	Copper	0.00	mg/L	0.006
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$ICP	Iron	0.250	mg/L	0.018
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$ICP	Lead	0.00	mg/L	0.006
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$ICP	Magnesium	15.9	mg/L	0.021
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$ICP	Manganese	0.0232	mg/L	0.009
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$ICP	Nickel	0.00	mg/L	0.003
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$ICP	Selenium	0.0321	mg/L	0.009
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$ICP	Silver	0.00	mg/L	0.003
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$ICP	Strontium	0.335	mg/L	0.009
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$ICP	Thallium	0.0324	mg/L	0.012
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$ICP	Tin	0.00	mg/L	0.006
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$ICP	Zinc	0.00	mg/L	0.006
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	PB_FU	Lead by Furnace	0.19	ug/L	1.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	AS_FU	Arsenic by Furnace	0.84	ug/L	1.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	CU_FU	Copper by Furnace	2.5	ug/L	1
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	NO3NO2	Nitrate + Nitrite	0.760	mg/L	0.5
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	NO2	Nitrite as N	0	mg/l	0.005
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	NO3	Nitrate as N (calculated)	0.7600	mg/l	
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	Aldrin	AA	ug/L	0.02
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	Gamma-BHC	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	Chlordane	AA	ug/L	0.100
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	Endrin	AA	ug/L	0.02
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	Toxaphene	AA	ug/L	1.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	Surr: Decachlorobiphenyl	0.783	%	
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PEST	Surr: Tetrachloro-m-xylene	1.03	%	
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624	Chloromethane	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624	Bromomethane	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624	Chloroethane	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624	Acrolein	0	ug/L	100.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624	Acrylonitrile	0	ug/L	100.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624	Methylene Chloride	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		Chloroform	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		1,2-Dichloroethane-d4	45.4	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		Benzene	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		Trichloroethene	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		Bromodichloromethane	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		Bromoform	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		Toluene	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		Toluene-d8	41.5	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		Chlorobenzene	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		Ethylbenzene	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		Bromofluorobenzene	66.8	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		2-Propanone	0	ug/L	60
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		2-Butanone	0	ug/L	60
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		Tetrahydrofuran	0	ug/L	
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		2-chloroethoxy ethene	0	ug/L	
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$624		TOTAL AMOUNT	304	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		pyridine	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		n-nitrosodimethylamine	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		2-Fluorophenol	15.7	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		aniline	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Phenol-d6	11.0	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Phenol	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		2-Chlorophenol	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		n-decane	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		o-cresol	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		acetophenone	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Hexachloroethane	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Naphthalene-D8	50	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Nitrobenzene-d5	25.6	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		p-cresol	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Nitrobenzene	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Isophorone	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Decafluorobiphenyl	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		2-Nitrophenol	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		2,4-Dimethylphenol	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		2,4-Dichlorophenol	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Naphthalene	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		1-Fluoronaphthalene	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		alpha terpineol	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Hexachlorobutadiene	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Acenaphthene-d10	50	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Hexachlorocyclopentadiene	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		2,3 dichloroaniline	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		2-Chloronaphthalene	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Dimethyl phthalate	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Acenaphthylene	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		2,6-Dinitrotoluene	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Acenaphthene	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		2,4-Dinitrophenol	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		4-Nitrophenol	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		2,4-Dinitrotoluene	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Diethyl phthalate	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Fluorene	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Phenanthrene-D10	50	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		n-nitrosodiphenylamine	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		2,4,6-Tribromophenol	24.5	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Hexachlorobenzene	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Pentachlorophenol	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		n-octadecane	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Phenanthrene	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Anthracene	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		carbazole	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Di-n-butyl phthalate	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Fluoranthene	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Chrysene-d12	50	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Benzidine	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Pyrene	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Butyl benzyl phthalate	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Benzo(a)anthracene	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Chrysene	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Di-n-octyl phthalate	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Perylene-D12	50	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Benzo(b)fluoranthene	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Benzo(k)fluoranthene	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Benzo(a)pyrene	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$625		Benzo(ghi)perylene	AA	ug/L	3.0
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PAHS		Acenaphthene	AA	ug/L	3
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PAHS		Acenaphthylene	AA	ug/L	3
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PAHS		Anthracene	AA	ug/L	3
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PAHS		Benz(a)anthracene	AA	ug/L	3
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PAHS		Benzo(a)pyrene	AA	ug/L	3
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PAHS		Benzo(b)fluoranthene	AA	ug/L	3
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PAHS		Benzo(g,h,i)perylene	AA	ug/L	3
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PAHS		Benzo(k)fluoranthene	AA	ug/L	3
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PAHS		Chrysene	AA	ug/L	3
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PAHS		Dibenz(a,h)anthracene	AA	ug/L	3
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PAHS		Fluoranthene	AA	ug/L	3
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PAHS		Fluorene	AA	ug/L	3
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PAHS		Indeno(1,2,3-cd)pyrene	AA	ug/L	3
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PAHS		Naphthalene	AA	ug/L	3
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PAHS		Phenanthrene	AA	ug/L	3
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PAHS		Pyrene	AA	ug/L	3
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PAHS		Surr: 2-Fluorobiphenyl	27.3	%	3
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PAHS		Surr: 4-Terphenyl-d14	44.4	%	
AC06849	LM108	Little Miami Watershed	108	9/12/2012	11:00	\$PAHS		Surr: Nitrobenzene-d5	25.6	%	
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30		MF_CF	Fecal Coliform, Membrane Filter	210	CFU/100mL	
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30		E-COLI	E.coli (Colilert)	687	MPN	
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30		TDS	Total Dissolved Solids	200	mg/L	
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30		BOD	Biochemical Oxygen Demand	4	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	SO4	Sulfate	56.0	mg/L	12.5
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	CL	Chloride	79.7	mg/L	1.00
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	TSS	Tot. Suspended Solids	35	mg/L	2
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	SSC	Suspended Sediment Concentration	5.2	mg/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	HARD	Hardness as CaCO3	314	mg/l	
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	COD	COD	56	mg/L	
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	643	uS/cm	
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	TEMP_FLD	Temperature (Field) Celsius	17.85	Deg C	
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	PH_FLD	pH (Field)	7.83	S.U.	
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	DO_FLD	Dissolved Oxygen (field) mg/L	7.02	mg/l	
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	745	uS/cm	
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$ICP	Antimony	0.00	mg/L	0.006
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$ICP	Barium	0.0627	mg/L	0.003
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$ICP	Calcium	99.5	mg/L	0.066
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$ICP	Chromium	0.00	mg/L	0.006
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$ICP	Copper	0.00	mg/L	0.006
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$ICP	Iron	0.490	mg/L	0.018
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$ICP	Lead	0.00	mg/L	0.006
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$ICP	Magnesium	20.2	mg/L	0.021
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$ICP	Manganese	0.673	mg/L	0.009
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$ICP	Nickel	0.00405	mg/L	0.003
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$ICP	Selenium	0.0303	mg/L	0.009
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$ICP	Silver	0.00	mg/L	0.003
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$ICP	Strontium	0.408	mg/L	0.009
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$ICP	Thallium	0.0170	mg/L	0.012
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$ICP	Tin	0.00	mg/L	0.006
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$ICP	Zinc	0.00	mg/L	0.006



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	PB_FU	Lead by Furnace	0.27	ug/L	1.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	AS_FU	Arsenic by Furnace	3.52	ug/L	1.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	CU_FU	Copper by Furnace	5.2	ug/L	1
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	NH3	Ammonia as N	3.799	mg/L	0.5
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	NO3NO2	Nitrate + Nitrite	0.971	mg/L	0.5
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	TKN	Total Kjeldahl Nitrogen	4.546	mg/L	0.5
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	NO2	Nitrite as N	0.947	mg/l	0.005
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	NO3	Nitrate as N (calculated)	0.0240	mg/l	
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	Aldrin	AA	ug/L	0.02
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	Chlordane	AA	ug/L	0.10
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	Endrin	AA	ug/L	0.02
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	PCB 1242	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	Surr: Decachlorobiphenyl	0.811	%	
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PEST	Surr: Tetrachloro-m-xylene	1.02	%	
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	Chloromethane	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	Bromomethane	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	Chloroethane	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	Acrolein	0	ug/L	100.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	Acrylonitrile	0	ug/L	100.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	Methylene Chloride	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	Chloroform	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	1,2-Dichloroethane-d4	44.9	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	Benzene	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	Trichloroethene	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	Bromodichloromethane	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	Dibromochloromethane	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624	Bromoform	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624		Toluene	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624		Toluene-d8	41.2	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624		Chlorobenzene	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624		Ethylbenzene	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624		Bromofluorobenzene	66.0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624		2-Propanone	0	ug/L	60
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624		2-Butanone	0	ug/L	60
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624		Tetrahydrofuran	0	ug/L	
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$624		TOTAL AMOUNT	302	ug/L	
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		pyridine	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		n-nitrosodimethylamine	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		2-Fluorophenol	11.1	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		aniline	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Phenol-d6	7.82	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Phenol	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		2-Chlorophenol	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		n-decane	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		o-cresol	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		acetophenone	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Hexachloroethane	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Naphthalene-D8	50	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Nitrobenzene-d5	23.0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		p-cresol	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Nitrobenzene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Isophorone	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Decafluorobiphenyl	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		2-Nitrophenol	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		2,4-Dimethylphenol	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		2,4-Dichlorophenol	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Naphthalene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		1-Fluoronaphthalene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		alpha terpineol	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Hexachlorobutadiene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Acenaphthene-d10	50	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		2,3 dichloroaniline	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		2-Chloronaphthalene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Dimethyl phthalate	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Acenaphthylene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		2,6-Dinitrotoluene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Acenaphthene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		2,4-Dinitrophenol	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		4-Nitrophenol	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		2,4-Dinitrotoluene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Diethyl phthalate	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Fluorene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Phenanthrene-D10	50	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		n-nitrosodiphenylamine	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		1,2-Diphenylhydrazine	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		2,4,6-Tribromophenol	23.6	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Hexachlorobenzene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Pentachlorophenol	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		n-octadecane	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Phenanthrene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Anthracene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		carbazole	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Di-n-butyl phthalate	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Fluoranthene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Chrysene-d12	50	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Benzidine	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Pyrene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Butyl benzyl phthalate	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Benzo(a)anthracene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Chrysene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Di-n-octyl phthalate	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Perylene-D12	50	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Benzo(b)fluoranthene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Benzo(k)fluoranthene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Benzo(a)pyrene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$625		Benzo(ghi)perylene	AA	ug/L	3.0
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PAHS		Acenaphthene	AA	ug/L	3
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PAHS		Acenaphthylene	AA	ug/L	3
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PAHS		Anthracene	AA	ug/L	3
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PAHS		Benz(a)anthracene	AA	ug/L	3
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PAHS		Benzo(a)pyrene	AA	ug/L	3
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PAHS		Benzo(b)fluoranthene	AA	ug/L	3
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PAHS		Benzo(g,h,i)perylene	AA	ug/L	3

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PAHS	Benzo(k)fluoranthene	AA	ug/L	3
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PAHS	Chrysene	AA	ug/L	3
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PAHS	Dibenz(a,h)anthracene	AA	ug/L	3
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PAHS	Fluoranthene	AA	ug/L	3
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PAHS	Fluorene	AA	ug/L	3
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PAHS	Indeno(1,2,3-cd)pyrene	AA	ug/L	3
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PAHS	Naphthalene	AA	ug/L	3
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PAHS	Phenanthrene	AA	ug/L	3
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PAHS	Pyrene	AA	ug/L	3
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PAHS	Surr: 2-Fluorobiphenyl	24.2	%	
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PAHS	Surr: 4-Terphenyl-d14	39.1	%	
AC06850	LM104	Little Miami Watershed	104	9/12/2012	11:30	\$PAHS	Surr: Nitrobenzene-d5	23.0	%	
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	MF_CF	Fecal Coliform, Membrane Filter	1600	CFU/100mL	
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	E-COLI	E.coli (Colilert)	1553	MPN	
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	TDS	Total Dissolved Solids	380	mg/L	
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	SO4	Sulfate	37.7	mg/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	CL	Chloride	64.8	mg/L	1.00
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	TSS	Tot. Suspended Solids	102	mg/L	2
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	SSC	Suspended Sediment Concentration	115	mg/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	HARD	Hardness as CaCO3	224	mg/l	
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	COD	COD	58	mg/L	
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	634	uS/cm	
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	TEMP_FLD	Temperature (Field) Celsius	21.34	Deg C	
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	PH_FLD	pH (Field)	7.17	S.U.	
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	681	uS/cm	
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	NH3	Ammonia as N	0	mg/L	0.5
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	NO3NO2	Nitrate + Nitrite	1.04	mg/L	0.5
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	TKN	Total Kjeldahl Nitrogen	1.476	mg/L	0.5
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	TKP	Total Kjeldahl Phosphorus	0.7828	mg/L	0.5
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	NO2	Nitrite as N	0.014	mg/l	0.005
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	NO3	Nitrate as N (calculated)	1.0260	mg/l	
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	CHLOROPHYLL	Chlorophyll	7.63	mg/m3	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	Aldrin	AA	ug/L	0.02
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	Beta-BHC	AA	ug/L	0.02
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	Delta-BHC	AA	ug/L	0.02
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	Chlordane	AA	ug/L	0.10
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	4,4-DDE	AA	ug/L	0.02
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	Dieldrin	AA	ug/L	0.02
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	Endosulfan II	AA	ug/L	0.02
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	Endrin	AA	ug/L	0.02
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	Heptachlor	AA	ug/L	0.02
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	Toxaphene	AA	ug/L	1.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	PCB 1016	AA	ug/L	0.5
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	PCB 1221	AA	ug/L	0.5
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	PCB 1232	AA	ug/L	0.5
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	PCB 1242	AA	ug/L	0.5
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	PCB 1248	AA	ug/L	0.5
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	PCB 1254	AA	ug/L	0.5
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	PCB 1260	AA	ug/L	0.5
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	Surr: Decachlorobiphenyl	0.839	%	
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PEST	Surr: Tetrachloro-m-xylene	1.02	%	
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624	Chloromethane	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624	Vinyl Chloride	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624	Bromomethane	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624	Chloroethane	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624	Trichlorofluoromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		Acrolein	0	ug/L	100.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		Acrylonitrile	0	ug/L	100.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		Methylene Chloride	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		Chloroform	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		1,2-Dichloroethane-d4	46.0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		Benzene	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		Trichloroethene	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		Bromodichloromethane	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		Dibromochloromethane	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		Bromoform	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		Tetrachloroethene	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		Toluene	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		Toluene-d8	41.4	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		Chlorobenzene	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		Ethylbenzene	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		Bromofluorobenzene	64.4	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624		1,2-Dichlorobenzene	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624	2-Propanone	0	ug/L	60
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624	2-Butanone	0	ug/L	60
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624	Tetrahydrofuran	0	ug/L	
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624	2-chloroethoxy ethene	0	ug/L	
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$624	TOTAL AMOUNT	302	ug/L	
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	pyridine	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	n-nitrosodimethylamine	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	2-Fluorophenol	14.5	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	aniline	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Phenol-d6	9.8	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Phenol	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	2-Chlorophenol	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	n-decane	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	o-cresol	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	acetophenone	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Hexachloroethane	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Naphthalene-D8	50	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Nitrobenzene-d5	24.1	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	p-cresol	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Nitrobenzene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Isophorone	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Decafluorobiphenyl	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	2-Nitrophenol	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	2,4-Dimethylphenol	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	2,4-Dichlorophenol	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Naphthalene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	1-Fluoronaphthalene	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		alpha terpineol	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		Hexachlorobutadiene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		Acenaphthene-d10	50	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		2,3 dichloroaniline	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		2-Chloronaphthalene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		Dimethyl phthalate	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		Acenaphthylene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		2,6-Dinitrotoluene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		Acenaphthene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		2,4-Dinitrophenol	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		4-Nitrophenol	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		2,4-Dinitrotoluene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		Diethyl phthalate	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		Fluorene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		Phenanthrene-D10	50	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		n-nitrosodiphenylamine	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		2,4,6-Tribromophenol	25.0	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		Hexachlorobenzene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		Pentachlorophenol	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		n-octadecane	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		Phenanthrene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		Anthracene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		carbazole	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		Di-n-butyl phthalate	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		Fluoranthene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625		Chrysene-d12	50	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Benzidine	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Pyrene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Butyl benzyl phthalate	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Benzo(a)anthracene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Chrysene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Di-n-octyl phthalate	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Perylene-D12	50	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Benzo(b)fluoranthene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Benzo(k)fluoranthene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Benzo(a)pyrene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$625	Benzo(ghi)perylene	AA	ug/L	3.0
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PAHS	Acenaphthene	AA	ug/L	3
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PAHS	Acenaphthylene	AA	ug/L	3
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PAHS	Anthracene	AA	ug/L	3
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PAHS	Benz(a)anthracene	AA	ug/L	3
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PAHS	Benzo(a)pyrene	AA	ug/L	3
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PAHS	Benzo(b)fluoranthene	AA	ug/L	3
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PAHS	Benzo(g,h,i)perylene	AA	ug/L	3
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PAHS	Benzo(k)fluoranthene	AA	ug/L	3
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PAHS	Chrysene	AA	ug/L	3
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PAHS	Dibenz(a,h)anthracene	AA	ug/L	3
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PAHS	Fluoranthene	AA	ug/L	3
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PAHS	Fluorene	AA	ug/L	3
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PAHS	Indeno(1,2,3-cd)pyrene	AA	ug/L	3
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PAHS	Naphthalene	AA	ug/L	3
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PAHS	Phenanthrene	AA	ug/L	3
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PAHS	Pyrene	AA	ug/L	3
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PAHS	Surr: 2-Fluorobiphenyl	25.6	%	
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PAHS	Surr: 4-Terphenyl-d14	41.3	%	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06851	LM17	Little Miami Watershed	17 (3261-01)	9/12/2012	11:50	\$PAHS	Surr: Nitrobenzene-d5	24.1	%	
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	MF_CF	Fecal Coliform, Membrane Filter	4100	CFU/100mL	
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	E-COLI	E.coli (Colilert)	1300	MPN	
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	TDS	Total Dissolved Solids	900	mg/L	
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	BOD	Biochemical Oxygen Demand	5	mg/L	2
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	SO4	Sulfate	95.8	mg/L	50.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	CL	Chloride	258	mg/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	TSS	Tot. Suspended Solids	242	mg/L	2
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	SSC	Suspended Sediment Concentration	570	mg/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	HARD	Hardness as CaCO3	424	mg/l	
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	COD	COD	82	mg/L	
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1009	uS/cm	
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	TEMP_FLD	Temperature (Field) Celsius	20.02	Deg C	
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	PH_FLD	pH (Field)	8.36	S.U.	
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	DO_FLD	Dissolved Oxygen (field) mg/L	9.40	mg/l	
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	1115	uS/cm	
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$ICP	Aluminum	1.90	mg/L	0.348
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$ICP	Antimony	0.00	mg/L	0.006
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$ICP	Arsenic	0.373	mg/L	0.012
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$ICP	Barium	0.159	mg/L	0.003
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$ICP	Calcium	136	mg/L	0.066
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$ICP	Chromium	0.00	mg/L	0.006
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$ICP	Cobalt	0.00762	mg/L	0.006
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$ICP	Copper	0.0461	mg/L	0.006
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$ICP	Iron	4.56	mg/L	0.018
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$ICP	Lead	0.0537	mg/L	0.006
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$ICP	Magnesium	37.8	mg/L	0.021
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$ICP	Manganese	0.381	mg/L	0.009
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$ICP	Nickel	0.0150	mg/L	0.003
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$ICP	Selenium	0.0165	mg/L	0.009
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$ICP	Silver	0.00	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$ICP	Strontium	0.558	mg/L	0.009
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$ICP	Thallium	0.00	mg/L	0.012
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$ICP	Tin	0.00	mg/L	0.006
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$ICP	Zinc	0.189	mg/L	0.006
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	PB_FU	Lead by Furnace	72.23	ug/L	1.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	AS_FU	Arsenic by Furnace	308.4	ug/L	1.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	CU_FU	Copper by Furnace	55.9	ug/L	1
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	NH3	Ammonia as N	0	mg/L	0.5
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	NO3NO2	Nitrate + Nitrite	1.20	mg/L	0.5
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	TKN	Total Kjeldahl Nitrogen	2.577	mg/L	0.5
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	TKP	Total Kjeldahl Phosphorus	0.8306	mg/L	0.5
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	NO2	Nitrite as N	0.032	mg/l	0.005
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	NO3	Nitrate as N (calculated)	1.1680	mg/l	
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	CHLOROPHYLL	Chlorophyll	15.3	mg/m3	1.00
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	Aldrin	AA	ug/L	0.02
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	Beta-BHC	AA	ug/L	0.02
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	Delta-BHC	AA	ug/L	0.02
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	Chlordane	AA	ug/L	0.10
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	4,4-DDE	AA	ug/L	0.02
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	Dieldrin	AA	ug/L	0.02
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	Endosulfan II	AA	ug/L	0.02
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	Endrin	AA	ug/L	0.02
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	Heptachlor	AA	ug/L	0.02
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	Heptachlor epoxide	AA	ug/L	0.05

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	Toxaphene	AA	ug/L	1.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	PCB 1016	AA	ug/L	0.5
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	PCB 1221	AA	ug/L	0.5
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	PCB 1232	AA	ug/L	0.5
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	PCB 1242	AA	ug/L	0.5
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	PCB 1248	AA	ug/L	0.5
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	PCB 1254	AA	ug/L	0.5
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	PCB 1260	AA	ug/L	0.5
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	Surr: Decachlorobiphenyl	0.897	%	
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PEST	Surr: Tetrachloro-m-xylene	0.955	%	
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Chloromethane	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Vinyl Chloride	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Bromomethane	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Chloroethane	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Acrolein	0	ug/L	100.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Acrylonitrile	0	ug/L	100.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Methylene Chloride	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Chloroform	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	1,2-Dichloroethane-d4	54.8	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Benzene	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Trichloroethene	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Bromodichloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Dibromochloromethane	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Bromoform	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Tetrachloroethene	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Toluene	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Toluene-d8	46.6	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Chlorobenzene	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Ethylbenzene	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Bromofluorobenzene	68.4	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	2-Propanone	0	ug/L	60
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	2-Butanone	0	ug/L	60
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	Tetrahydrofuran	0	ug/L	
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	2-chloroethoxy ethene	0	ug/L	
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$624	TOTAL AMOUNT	320	ug/L	
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	pyridine	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	n-nitrosodimethylamine	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	2-Fluorophenol	11.5	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	aniline	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Phenol-d6	7.73	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Phenol	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	2-Chlorophenol	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	n-decane	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	o-cresol	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	acetophenone	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Hexachloroethane	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Naphthalene-D8	50	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Nitrobenzene-d5	21.6	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	p-cresol	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Nitrobenzene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Isophorone	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Decafluorobiphenyl	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	2-Nitrophenol	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	2,4-Dimethylphenol	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	2,4-Dichlorophenol	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Naphthalene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	1-Fluoronaphthalene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	alpha terpineol	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Hexachlorobutadiene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Acenaphthene-d10	50	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	2,3 dichloroaniline	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	2-Chloronaphthalene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Dimethyl phthalate	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Acenaphthylene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	2,6-Dinitrotoluene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Acenaphthene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	2,4-Dinitrophenol	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	4-Nitrophenol	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	2,4-Dinitrotoluene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Diethyl phthalate	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	4-Chlorophenyl phenyl ether	AA	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Fluorene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Phenanthrene-D10	50	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	n-nitrosodiphenylamine	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	2,4,6-Tribromophenol	25.9	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Hexachlorobenzene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Pentachlorophenol	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	n-octadecane	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Phenanthrene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Anthracene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	carbazole	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Di-n-butyl phthalate	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Fluoranthene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Chrysene-d12	50	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Benzdine	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Pyrene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Butyl benzyl phthalate	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Benzo(a)anthracene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Chrysene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Di-n-octyl phthalate	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Perylene-D12	50	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Benzo(b)fluoranthene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Benzo(k)fluoranthene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Benzo(a)pyrene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$625	Benzo(ghi)perylene	AA	ug/L	3.0
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PAHS	Acenaphthene	AA	ug/L	3
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PAHS	Acenaphthylene	AA	ug/L	3

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PAHS	Anthracene	AA	ug/L	3
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PAHS	Benz(a)anthracene	AA	ug/L	3
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PAHS	Benzo(a)pyrene	AA	ug/L	3
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PAHS	Benzo(b)fluoranthene	AA	ug/L	3
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PAHS	Benzo(g,h,i)perylene	AA	ug/L	3
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PAHS	Benzo(k)fluoranthene	AA	ug/L	3
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PAHS	Chrysene	AA	ug/L	3
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PAHS	Dibenz(a,h)anthracene	AA	ug/L	3
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PAHS	Fluoranthene	AA	ug/L	3
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PAHS	Fluorene	AA	ug/L	3
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PAHS	Indeno(1,2,3-cd)pyrene	AA	ug/L	3
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PAHS	Naphthalene	AA	ug/L	3
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PAHS	Phenanthrene	AA	ug/L	3
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PAHS	Pyrene	AA	ug/L	3
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PAHS	Surr: 2-Fluorobiphenyl	24.5	%	
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PAHS	Surr: 4-Terphenyl-d14	43.8	%	
AC06900	LM78	Little Miami Watershed	78	9/13/2012	08:50	\$PAHS	Surr: Nitrobenzene-d5	21.6	%	
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	MF_CF	Fecal Coliform, Membrane Filter	570	CFU/100mL	
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	E-COLI	E.coli (Colilert)	649	MPN	
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	TDS	Total Dissolved Solids	690	mg/L	
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	SO4	Sulfate	134	mg/L	25.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	CL	Chloride	212	mg/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	TSS	Tot. Suspended Solids	6	mg/L	2
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	SSC	Suspended Sediment Concentration	7.1	mg/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	HARD	Hardness as CaCO3	330	mg/l	
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	COD	COD	35	mg/L	
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	910	uS/cm	
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	TEMP_FLD	Temperature (Field) Celsius	20.87	Deg C	
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	PH_FLD	pH (Field)	8.37	S.U.	
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	DO_FLD	Dissolved Oxygen (field) mg/L	8.56	mg/l	
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	988	uS/cm	
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$ICP	Aluminum	0.00	mg/L	0.348

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$ICP	Antimony	0.00	mg/L	0.006
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$ICP	Arsenic	0.126	mg/L	0.012
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$ICP	Barium	0.0688	mg/L	0.003
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$ICP	Calcium	85.3	mg/L	0.066
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$ICP	Chromium	0.00	mg/L	0.006
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$ICP	Copper	0.00	mg/L	0.006
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$ICP	Iron	0.148	mg/L	0.018
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$ICP	Lead	0.00	mg/L	0.006
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$ICP	Magnesium	27.3	mg/L	0.021
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$ICP	Manganese	0.0501	mg/L	0.009
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$ICP	Nickel	0.00	mg/L	0.003
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$ICP	Selenium	0.0286	mg/L	0.009
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$ICP	Silver	0.00	mg/L	0.003
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$ICP	Strontium	0.400	mg/L	0.009
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$ICP	Thallium	0.0322	mg/L	0.012
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$ICP	Tin	0.00	mg/L	0.006
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$ICP	Zinc	0.00838	mg/L	0.006
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	PB_FU	Lead by Furnace	0.37	ug/L	1.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	AS_FU	Arsenic by Furnace	108.7	ug/L	1.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	CU_FU	Copper by Furnace	6.4	ug/L	1
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	NH3	Ammonia as N	0	mg/L	0.5
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	NO2	Nitrite as N	0.021	mg/l	0.005
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	NO3	Nitrate as N (calculated)	AW	mg/l	
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	Aldrin	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	Beta-BHC	AA	ug/L	0.02
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	Delta-BHC	AA	ug/L	0.02
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	Chlordane	AA	ug/L	0.10
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	4,4-DDE	AA	ug/L	0.02
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	Dieldrin	AA	ug/L	0.02
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	Endosulfan II	AA	ug/L	0.02
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	Endrin	AA	ug/L	0.02
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	Heptachlor	AA	ug/L	0.02
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	Toxaphene	AA	ug/L	1.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	PCB 1016	AA	ug/L	0.5
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	PCB 1221	AA	ug/L	0.5
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	PCB 1232	AA	ug/L	0.5
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	PCB 1242	AA	ug/L	0.5
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	PCB 1248	AA	ug/L	0.5
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	PCB 1254	AA	ug/L	0.5
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	PCB 1260	AA	ug/L	0.5
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	Surr: Decachlorobiphenyl	1.02	%	
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PEST	Surr: Tetrachloro-m-xylene	0.945	%	
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Chloromethane	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Vinyl Chloride	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Bromomethane	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Chloroethane	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Acrolein	0	ug/L	100.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Acrylonitrile	0	ug/L	100.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Methylene Chloride	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Chloroform	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	1,2-Dichloroethane-d4	54.2	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Benzene	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Trichloroethene	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Bromodichloromethane	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Dibromochloromethane	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Bromoform	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Tetrachloroethene	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Toluene	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Toluene-d8	46.7	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Chlorobenzene	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Ethylbenzene	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Bromofluorobenzene	68.7	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	2-Propanone	0	ug/L	60

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	2-Butanone	0	ug/L	60
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	Tetrahydrofuran	0	ug/L	
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	2-chloroethoxy ethene	0	ug/L	
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$624	TOTAL AMOUNT	320	ug/L	
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	1,4-Dichlorobenzene-D4	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	pyridine	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	n-nitrosodimethylamine	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	2-Fluorophenol	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	aniline	AS	ug/L	6.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Phenol-d6	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Phenol	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Bis(2-Chloroethyl)ether	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	2-Chlorophenol	AS	ug/L	6.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	n-decane	AS	ug/L	6.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Bis(2-chloroisopropyl)ether	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	o-cresol	AS	ug/L	6.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	acetophenone	AS	ug/L	6.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	n-nitrosodi-n-propylamine	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Hexachloroethane	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Naphthalene-D8	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Nitrobenzene-d5	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	p-cresol	AS	ug/L	6.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Nitrobenzene	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Isophorone	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Decafluorobiphenyl	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	2-Nitrophenol	AS	ug/L	6.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	2,4-Dimethylphenol	AS	ug/L	6.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	bis(2-Chloroethoxy)methane	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	2,4-Dichlorophenol	AS	ug/L	6.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	1,2,4-Trichlorobenzene	AS	ug/L	6.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Naphthalene	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	1-Fluoronaphthalene	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	alpha terpineol	AS	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Hexachlorobutadiene	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	4-Chloro-3-methylphenol	AS	ug/L	6.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Acenaphthene-d10	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Hexachlorocyclopentadiene	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	2,3 dichloroaniline	AS	ug/L	6.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	2,4,6-Trichlorophenol	AS	ug/L	6.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	2-Chloronaphthalene	AS	ug/L	6.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Dimethyl phthalate	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Acenaphthylene	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	2,6-Dinitrotoluene	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Acenaphthene	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	2,4-Dinitrophenol	AS	ug/L	6.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	4-Nitrophenol	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	2,4-Dinitrotoluene	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Diethyl phthalate	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	4-Chlorophenyl phenyl ether	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Fluorene	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Phenanthrene-D10	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	4,6-Dinitro-o-cresol	AS	ug/L	7.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	n-nitrosodiphenylamine	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	1,2-Diphenylhydrazine	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	2,4,6-Tribromophenol	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	4-Bromophenyl phenyl ether	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Hexachlorobenzene	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Pentachlorophenol	AS	ug/L	6.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	n-octadecane	AS	ug/L	6.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Phenanthrene	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Anthracene	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	carbazole	AS	ug/L	6.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Di-n-butyl phthalate	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Fluoranthene	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Chrysene-d12	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625	Benzidine	AS	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625		Pyrene	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625		Butyl benzyl phthalate	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625		3,3-Dichlorobenzidine	AS	ug/L	6.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625		Benzo(a)anthracene	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625		Chrysene	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625		bis(2-ethylhexyl)phthalate	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625		Di-n-octyl phthalate	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625		Perylene-D12	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625		Benzo(b)fluoranthene	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625		Benzo(k)fluoranthene	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625		Benzo(a)pyrene	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625		Indeno(1,2,3-cd)pyrene	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625		Dibenzo(a,h)anthracene	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$625		Benzo(ghi)perylene	AS	ug/L	3.0
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PAHS		Acenaphthene	AA	ug/L	3
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PAHS		Acenaphthylene	AA	ug/L	3
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PAHS		Anthracene	AA	ug/L	3
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PAHS		Benz(a)anthracene	AA	ug/L	3
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PAHS		Benzo(a)pyrene	AA	ug/L	3
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PAHS		Benzo(b)fluoranthene	AA	ug/L	3
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PAHS		Benzo(g,h,i)perylene	AA	ug/L	3
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PAHS		Benzo(k)fluoranthene	AA	ug/L	3
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PAHS		Chrysene	AA	ug/L	3
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PAHS		Dibenz(a,h)anthracene	AA	ug/L	3
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PAHS		Fluoranthene	AA	ug/L	3
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PAHS		Fluorene	AA	ug/L	3
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PAHS		Indeno(1,2,3-cd)pyrene	AA	ug/L	3
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PAHS		Naphthalene	AA	ug/L	3
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PAHS		Phenanthrene	AA	ug/L	3
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PAHS		Pyrene	AA	ug/L	3
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PAHS		Surr: 2-Fluorobiphenyl	32.1	%	
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PAHS		Surr: 4-Terphenyl-d14	43.0	%	
AC06901	LM73	Little Miami Watershed	73	9/13/2012	09:15	\$PAHS		Surr: Nitrobenzene-d5	30.8	%	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	MF_CF	Fecal Coliform, Membrane Filter	440	CFU/100mL	
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	E-COLI	E.coli (Colilert)	411	MPN	
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	TDS	Total Dissolved Solids	790	mg/L	
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	SO4	Sulfate	120	mg/L	25.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	CL	Chloride	226	mg/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	TSS	Tot. Suspended Solids	8	mg/L	2
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	HARD	Hardness as CaCO3	454	mg/l	
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	COD	COD	33	mg/L	
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	950	uS/cm	
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	TEMP_FLD	Temperature (Field) Celsius	19.15	Deg C	
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	PH_FLD	pH (Field)	8.22	S.U.	
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	DO_FLD	Dissolved Oxygen (field) mg/L	7.79	mg/l	
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	1070	uS/cm	
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$ICP	Antimony	0.00	mg/L	0.006
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$ICP	Barium	0.0576	mg/L	0.003
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$ICP	Calcium	130	mg/L	0.066
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$ICP	Chromium	0.00	mg/L	0.006
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$ICP	Copper	0.00	mg/L	0.006
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$ICP	Iron	0.105	mg/L	0.018
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$ICP	Lead	0.00	mg/L	0.006
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$ICP	Magnesium	28.6	mg/L	0.021
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$ICP	Manganese	0.0282	mg/L	0.009
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$ICP	Nickel	0.00	mg/L	0.003
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$ICP	Selenium	0.0177	mg/L	0.009
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$ICP	Silver	0.00	mg/L	0.003
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$ICP	Strontium	0.465	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$ICP	Thallium	0.0147	mg/L	0.012
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$ICP	Tin	0.00	mg/L	0.006
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$ICP	Zinc	0.00	mg/L	0.006
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	PB_FU	Lead by Furnace	0.23	ug/L	1.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	AS_FU	Arsenic by Furnace	2.16	ug/L	1.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	CU_FU	Copper by Furnace	4.0	ug/L	1
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	NH3	Ammonia as N	0	mg/L	0.5
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	NO3NO2	Nitrate + Nitrite	0.667	mg/L	0.5
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	NO2	Nitrite as N	0.008	mg/l	0.005
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	NO3	Nitrate as N (calculated)	0.6590	mg/l	
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	Aldrin	AA	ug/L	0.02
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	Chlordane	AA	ug/L	0.10
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	Endrin	AA	ug/L	0.02
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	Toxaphene	AA	ug/L	1.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	Surr: Decachlorobiphenyl	1.08	%	
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PEST	Surr: Tetrachloro-m-xylene	1.06	%	
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	Chloromethane	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	Bromomethane	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	Chloroethane	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	Acrolein	0	ug/L	100.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	Acrylonitrile	0	ug/L	100.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	Methylene Chloride	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	Chloroform	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	1,2-Dichloroethane-d4	55.6	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	Benzene	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	Trichloroethene	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	Bromodichloromethane	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624		Bromoform	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624		Toluene	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624		Toluene-d8	46.9	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624		Chlorobenzene	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624		Ethylbenzene	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624		Bromofluorobenzene	67.1	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624		2-Propanone	0	ug/L	60
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624		2-Butanone	0	ug/L	60
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624		Tetrahydrofuran	0	ug/L	
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$624		TOTAL AMOUNT	320	ug/L	
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		pyridine	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		n-nitrosodimethylamine	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		2-Fluorophenol	17.6	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		aniline	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Phenol-d6	12.2	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Phenol	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		2-Chlorophenol	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		n-decane	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		o-cresol	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		acetophenone	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Hexachloroethane	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Naphthalene-D8	50	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Nitrobenzene-d5	30.8	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		p-cresol	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Nitrobenzene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Isophorone	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Decafluorobiphenyl	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		2-Nitrophenol	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		2,4-Dimethylphenol	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		2,4-Dichlorophenol	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Naphthalene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		1-Fluoronaphthalene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		alpha terpineol	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Hexachlorobutadiene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Acenaphthene-d10	50	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		2,3 dichloroaniline	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		2-Chloronaphthalene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Dimethyl phthalate	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Acenaphthylene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		2,6-Dinitrotoluene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Acenaphthene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		2,4-Dinitrophenol	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		4-Nitrophenol	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		2,4-Dinitrotoluene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Diethyl phthalate	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Fluorene	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Phenanthrene-D10	50	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		n-nitrosodiphenylamine	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		2,4,6-Tribromophenol	28.8	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Hexachlorobenzene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Pentachlorophenol	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		n-octadecane	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Phenanthrene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Anthracene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		carbazole	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Di-n-butyl phthalate	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Fluoranthene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Chrysene-d12	50	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Benzidine	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Pyrene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Butyl benzyl phthalate	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Benzo(a)anthracene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Chrysene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Di-n-octyl phthalate	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Perylene-D12	50	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Benzo(b)fluoranthene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Benzo(k)fluoranthene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Benzo(a)pyrene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$625		Benzo(ghi)perylene	AA	ug/L	3.0
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PAHS		Acenaphthene	AA	ug/L	3
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PAHS		Acenaphthylene	AA	ug/L	3
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PAHS		Anthracene	AA	ug/L	3

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PAHS	Benz(a)anthracene	AA	ug/L	3
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PAHS	Benzo(a)pyrene	AA	ug/L	3
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PAHS	Benzo(b)fluoranthene	AA	ug/L	3
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PAHS	Benzo(g,h,i)perylene	AA	ug/L	3
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PAHS	Benzo(k)fluoranthene	AA	ug/L	3
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PAHS	Chrysene	AA	ug/L	3
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PAHS	Dibenz(a,h)anthracene	AA	ug/L	3
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PAHS	Fluoranthene	AA	ug/L	3
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PAHS	Fluorene	AA	ug/L	3
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PAHS	Indeno(1,2,3-cd)pyrene	AA	ug/L	3
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PAHS	Naphthalene	AA	ug/L	3
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PAHS	Phenanthrene	AA	ug/L	3
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PAHS	Pyrene	AA	ug/L	3
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PAHS	Surr: 2-Fluorobiphenyl	32.1	%	
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PAHS	Surr: 4-Terphenyl-d14	43.0	%	
AC06902	LM74	Little Miami Watershed	74	9/13/2012	09:30	\$PAHS	Surr: Nitrobenzene-d5	30.8	%	
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	MF_CF	Fecal Coliform, Membrane Filter	330	CFU/100mL	
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	E-COLI	E.coli (Colilert)	411	MPN	
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	TDS	Total Dissolved Solids	670	mg/L	
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	SO4	Sulfate	126	mg/L	25.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	CL	Chloride	183	mg/L	4.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	TSS	Tot. Suspended Solids	10	mg/L	2
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	HARD	Hardness as CaCO3	458	mg/l	
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	COD	COD	27	mg/L	
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	932	uS/cm	
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	TEMP_FLD	Temperature (Field) Celsius	20.81	Deg C	
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	PH_FLD	pH (Field)	8.29	S.U.	
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	DO_FLD	Dissolved Oxygen (field) mg/L	14.80	mg/l	
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	1013	uS/cm	
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$ICP	Antimony	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$ICP	Arsenic	0.0153	mg/L	0.012
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$ICP	Barium	0.0746	mg/L	0.003
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$ICP	Calcium	148	mg/L	0.066
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$ICP	Chromium	0.00	mg/L	0.006
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$ICP	Copper	0.00	mg/L	0.006
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$ICP	Iron	0.0394	mg/L	0.018
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$ICP	Lead	0.00	mg/L	0.006
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$ICP	Magnesium	34.1	mg/L	0.021
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$ICP	Manganese	0.00	mg/L	0.009
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$ICP	Nickel	0.00	mg/L	0.003
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$ICP	Selenium	0.0252	mg/L	0.009
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$ICP	Silver	0.00	mg/L	0.003
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$ICP	Strontium	0.410	mg/L	0.009
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$ICP	Thallium	0.00	mg/L	0.012
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$ICP	Tin	0.00	mg/L	0.006
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$ICP	Zinc	0.00	mg/L	0.006
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	PB_FU	Lead by Furnace	0.22	ug/L	1.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	AS_FU	Arsenic by Furnace	10.96	ug/L	1.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	CU_FU	Copper by Furnace	4.4	ug/L	1
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	NH3	Ammonia as N	0	mg/L	0.5
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	NO3NO2	Nitrate + Nitrite	1.39	mg/L	0.5
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	NO2	Nitrite as N	0.009	mg/l	0.005
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	NO3	Nitrate as N (calculated)	1.3810	mg/l	
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	Aldrin	AS	ug/L	0.1
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	Alpha-BHC	AS	ug/L	0.1



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	Beta-BHC	AS	ug/L	0.1
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	Delta-BHC	AS	ug/L	0.1
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	Gamma-BHC	AS	ug/L	0.1
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	Chlordane	AS	ug/L	0.5
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	4,4-DDD	AS	ug/L	0.1
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	4,4-DDT	AS	ug/L	0.1
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	4,4-DDE	AS	ug/L	0.1
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	Dieldrin	AS	ug/L	0.1
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	Endosulfan I	AS	ug/L	0.1
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	Endosulfan II	AS	ug/L	0.1
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	Endosulfan sulfate	AS	ug/L	0.1
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	Endrin	AS	ug/L	0.1
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	Endrin aldehyde	AS	ug/L	0.1
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	Heptachlor	AS	ug/L	0.1
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	Heptachlor epoxide	AS	ug/L	0.1
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	Toxaphene	AS	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	PCB 1016	AS	ug/L	0.5
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	PCB 1221	AS	ug/L	0.5
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	PCB 1232	AS	ug/L	0.5
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	PCB 1242	AS	ug/L	0.5
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	PCB 1248	AS	ug/L	0.5
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	PCB 1254	AS	ug/L	0.5
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	PCB 1260	AS	ug/L	0.5
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	Surr: Decachlorobiphenyl	AS	%	
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PEST	Surr: Tetrachloro-m-xylene	AS	%	
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624	Chloromethane	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624	Vinyl Chloride	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624	Bromomethane	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624	Chloroethane	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624	Acrolein	0	ug/L	100.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624	1,1-Dichloroethene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		Acrylonitrile	0	ug/L	100.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		Methylene Chloride	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		Chloroform	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		1,2-Dichloroethane-d4	56.8	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		Benzene	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		Trichloroethene	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		Bromodichloromethane	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		Dibromochloromethane	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		Bromoform	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		Tetrachloroethene	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		Toluene	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		Toluene-d8	47.1	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		Chlorobenzene	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		Ethylbenzene	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		Bromofluorobenzene	63.2	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		2-Propanone	0	ug/L	60
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624		2-Butanone	0	ug/L	60

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624	Tetrahydrofuran	0	ug/L	
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624	2-chloroethoxy ethene	0	ug/L	
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$624	TOTAL AMOUNT	317	ug/L	
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	pyridine	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	n-nitrosodimethylamine	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	2-Fluorophenol	15.7	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	aniline	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	Phenol-d6	10.8	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	Phenol	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	2-Chlorophenol	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	n-decane	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	o-cresol	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	acetophenone	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	Hexachloroethane	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	Naphthalene-D8	50	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	Nitrobenzene-d5	27.6	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	p-cresol	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	Nitrobenzene	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	Isophorone	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	Decafluorobiphenyl	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	2-Nitrophenol	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	2,4-Dimethylphenol	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	2,4-Dichlorophenol	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	Naphthalene	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	1-Fluoronaphthalene	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	alpha terpineol	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625	Hexachlorobutadiene	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Acenaphthene-d10	50	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		2,3 dichloroaniline	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		2-Chloronaphthalene	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Dimethyl phthalate	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Acenaphthylene	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		2,6-Dinitrotoluene	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Acenaphthene	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		2,4-Dinitrophenol	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		4-Nitrophenol	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		2,4-Dinitrotoluene	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Diethyl phthalate	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Fluorene	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Phenanthrene-D10	50	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		n-nitrosodiphenylamine	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		2,4,6-Tribromophenol	28.4	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Hexachlorobenzene	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Pentachlorophenol	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		n-octadecane	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Phenanthrene	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Anthracene	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		carbazole	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Di-n-butyl phthalate	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Fluoranthene	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Chrysene-d12	50	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Benzidine	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Pyrene	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Butyl benzyl phthalate	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Benzo(a)anthracene	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Chrysene	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Di-n-octyl phthalate	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Perylene-D12	50	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Benzo(b)fluoranthene	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Benzo(k)fluoranthene	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Benzo(a)pyrene	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$625		Benzo(ghi)perylene	AA	ug/L	3.0
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PAHS		Acenaphthene	AA	ug/L	3
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PAHS		Acenaphthylene	AA	ug/L	3
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PAHS		Anthracene	AA	ug/L	3
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PAHS		Benz(a)anthracene	AA	ug/L	3
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PAHS		Benzo(a)pyrene	AA	ug/L	3
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PAHS		Benzo(b)fluoranthene	AA	ug/L	3
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PAHS		Benzo(g,h,i)perylene	AA	ug/L	3
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PAHS		Benzo(k)fluoranthene	AA	ug/L	3
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PAHS		Chrysene	AA	ug/L	3
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PAHS		Dibenz(a,h)anthracene	AA	ug/L	3
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PAHS		Fluoranthene	AA	ug/L	3
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PAHS		Fluorene	AA	ug/L	3
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PAHS		Indeno(1,2,3-cd)pyrene	AA	ug/L	3
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PAHS		Naphthalene	AA	ug/L	3
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PAHS		Phenanthrene	AA	ug/L	3
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PAHS		Pyrene	AA	ug/L	3
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PAHS		Surr: 2-Fluorobiphenyl	30.3	%	
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PAHS		Surr: 4-Terphenyl-d14	45.6	%	
AC06903	LM75	Little Miami Watershed	75	9/13/2012	09:50	\$PAHS		Surr: Nitrobenzene-d5	27.6	%	
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	MF_CF		Fecal Coliform, Membrane Filter	570	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	E-COLI	E.coli (Colilert)	488	MPN	
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	TDS	Total Dissolved Solids	790	mg/L	
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	SO4	Sulfate	125	mg/L	25.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	CL	Chloride	198	mg/L	4.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	TSS	Tot. Suspended Solids	4	mg/L	2
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	HARD	Hardness as CaCO3	458	mg/l	
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	COD	COD	24	mg/L	
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	901	uS/cm	
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	TEMP_FLD	Temperature (Field) Celsius	20.51	Deg C	
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	PH_FLD	pH (Field)	8.35	S.U.	
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	DO_FLD	Dissolved Oxygen (field) mg/L	9.30	mg/l	
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	985	uS/cm	
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$ICP	Aluminum	0.00	mg/L	0.348
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$ICP	Antimony	0.00	mg/L	0.006
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$ICP	Arsenic	0.0167	mg/L	0.012
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$ICP	Barium	0.0708	mg/L	0.003
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$ICP	Calcium	128	mg/L	0.066
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$ICP	Chromium	0.00	mg/L	0.006
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$ICP	Copper	0.00	mg/L	0.006
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$ICP	Iron	0.0748	mg/L	0.018
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$ICP	Lead	0.00	mg/L	0.006
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$ICP	Magnesium	30.4	mg/L	0.021
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$ICP	Manganese	0.0120	mg/L	0.009
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$ICP	Nickel	0.00	mg/L	0.003
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$ICP	Selenium	0.0153	mg/L	0.009
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$ICP	Silver	0.00	mg/L	0.003
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$ICP	Strontium	0.415	mg/L	0.009
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$ICP	Thallium	0.00	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$ICP	Tin	0.00	mg/L	0.006
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$ICP	Zinc	0.00	mg/L	0.006
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	PB_FU	Lead by Furnace	0.48	ug/L	1.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	AS_FU	Arsenic by Furnace	11.65	ug/L	1.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	CU_FU	Copper by Furnace	5.8	ug/L	1
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	NH3	Ammonia as N	0	mg/L	0.5
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	NO3NO2	Nitrate + Nitrite	1.83	mg/L	0.5
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	NO2	Nitrite as N	0.011	mg/l	0.005
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	NO3	Nitrate as N (calculated)	1.8190	mg/l	
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	Aldrin	AA	ug/L	0.02
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	Beta-BHC	AA	ug/L	0.02
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	Delta-BHC	AA	ug/L	0.02
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	Chlordane	AA	ug/L	01.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	4,4-DDE	AA	ug/L	0.02
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	Dieldrin	AA	ug/L	0.02
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	Endosulfan II	AA	ug/L	0.02
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	Endrin	AA	ug/L	0.02
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	Heptachlor	AA	ug/L	0.02
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	Toxaphene	AA	ug/L	1.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	PCB 1016	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	PCB 1221	AA	ug/L	0.5
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	PCB 1232	AA	ug/L	0.5
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	PCB 1242	AA	ug/L	0.5
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	PCB 1248	AA	ug/L	0.5
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	PCB 1254	AA	ug/L	0.5
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	PCB 1260	AA	ug/L	0.5
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	Surr: Decachlorobiphenyl	1.04	%	
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PEST	Surr: Tetrachloro-m-xylene	0.985	%	
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Chloromethane	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Vinyl Chloride	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Bromomethane	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Chloroethane	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Acrolein	0	ug/L	100.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Acrylonitrile	0	ug/L	100.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Methylene Chloride	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Chloroform	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	1,2-Dichloroethane-d4	57.9	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Benzene	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Trichloroethene	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Bromodichloromethane	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Dibromochloromethane	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Bromoform	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Tetrachloroethene	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Toluene	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Toluene-d8	47.2	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Chlorobenzene	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Ethylbenzene	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Bromofluorobenzene	65.5	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	2-Propanone	0	ug/L	60
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	2-Butanone	0	ug/L	60
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	Tetrahydrofuran	0	ug/L	
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	2-chloroethoxy ethene	0	ug/L	
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$624	TOTAL AMOUNT	321	ug/L	
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625	1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625	pyridine	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625	n-nitrosodimethylamine	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625	2-Fluorophenol	18.0	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625	aniline	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625	Phenol-d6	12.4	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625	Phenol	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625	Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625	2-Chlorophenol	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625	n-decane	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625	Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625	o-cresol	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625	acetophenone	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625	n-nitrosodi-n-propylamine	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Hexachloroethane	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Naphthalene-D8	50	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Nitrobenzene-d5	31.3	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		p-cresol	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Nitrobenzene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Isophorone	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Decafluorobiphenyl	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		2-Nitrophenol	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		2,4-Dimethylphenol	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		2,4-Dichlorophenol	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Naphthalene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		1-Fluoronaphthalene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		alpha terpineol	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Hexachlorobutadiene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Acenaphthene-d10	50	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		2,3 dichloroaniline	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		2-Chloronaphthalene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Dimethyl phthalate	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Acenaphthylene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		2,6-Dinitrotoluene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Acenaphthene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		2,4-Dinitrophenol	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		4-Nitrophenol	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		2,4-Dinitrotoluene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Diethyl phthalate	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Fluorene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Phenanthrene-D10	50	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		n-nitrosodiphenylamine	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		2,4,6-Tribromophenol	29.2	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Hexachlorobenzene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Pentachlorophenol	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		n-octadecane	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Phenanthrene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Anthracene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		carbazole	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Di-n-butyl phthalate	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Fluoranthene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Chrysene-d12	50	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Benzidine	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Pyrene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Butyl benzyl phthalate	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Benzo(a)anthracene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Chrysene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Di-n-octyl phthalate	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Perylene-D12	50	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Benzo(b)fluoranthene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Benzo(k)fluoranthene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Benzo(a)pyrene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$625		Benzo(ghi)perylene	AA	ug/L	3.0
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PAHS		Acenaphthene	AA	ug/L	3
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PAHS		Acenaphthylene	AA	ug/L	3
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PAHS		Anthracene	AA	ug/L	3
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PAHS		Benz(a)anthracene	AA	ug/L	3

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PAHS	Benzo(a)pyrene	AA	ug/L	3
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PAHS	Benzo(b)fluoranthene	AA	ug/L	3
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PAHS	Benzo(g,h,i)perylene	AA	ug/L	3
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PAHS	Benzo(k)fluoranthene	AA	ug/L	3
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PAHS	Chrysene	AA	ug/L	3
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PAHS	Dibenz(a,h)anthracene	AA	ug/L	3
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PAHS	Fluoranthene	AA	ug/L	3
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PAHS	Fluorene	AA	ug/L	3
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PAHS	Indeno(1,2,3-cd)pyrene	AA	ug/L	3
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PAHS	Naphthalene	AA	ug/L	3
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PAHS	Phenanthrene	AA	ug/L	3
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PAHS	Pyrene	AA	ug/L	3
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PAHS	Surr: 2-Fluorobiphenyl	32.1	%	
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PAHS	Surr: 4-Terphenyl-d14	41.8	%	
AC06904	LM76	Little Miami Watershed	76	9/13/2012	10:10	\$PAHS	Surr: Nitrobenzene-d5	31.3	%	
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	1300	CFU/100mL	
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	E-COLI	E.coli (Colilert)	1120	MPN	
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	TDS	Total Dissolved Solids	670	mg/L	
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	SO4	Sulfate	116	mg/L	25.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	CL	Chloride	225	mg/L	4.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	TSS	Tot. Suspended Solids	12	mg/L	2
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	HARD	Hardness as CaCO3	408	mg/l	
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	COD	COD	28	mg/L	
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	835	uS/cm	
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	21.27	Deg C	
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	PH_FLD	pH (Field)	8.40	S.U.	
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	10.61	mg/l	
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	899	uS/cm	
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$ICP	Antimony	0.00	mg/L	0.006
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$ICP	Arsenic	0.00	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$ICP	Barium	0.0621	mg/L	0.003
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$ICP	Calcium	107	mg/L	0.066
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$ICP	Chromium	0.00	mg/L	0.006
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$ICP	Copper	0.00	mg/L	0.006
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$ICP	Iron	0.0863	mg/L	0.018
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$ICP	Lead	0.00	mg/L	0.006
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$ICP	Magnesium	26.8	mg/L	0.021
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$ICP	Manganese	0.0179	mg/L	0.009
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$ICP	Nickel	0.00	mg/L	0.003
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$ICP	Selenium	0.0326	mg/L	0.009
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$ICP	Silver	0.00	mg/L	0.003
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$ICP	Strontium	0.381	mg/L	0.009
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$ICP	Thallium	0.00	mg/L	0.012
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$ICP	Tin	0.00	mg/L	0.006
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$ICP	Zinc	0.00	mg/L	0.006
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	PB_FU	Lead by Furnace	0.54	ug/L	1.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	AS_FU	Arsenic by Furnace	11.02	ug/L	1.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	CU_FU	Copper by Furnace	4.9	ug/L	1
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	NO3NO2	Nitrate + Nitrite	0.83	mg/L	0.5
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	NO2	Nitrite as N	0.010	mg/l	0.005
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	NO3	Nitrate as N (calculated)	0.8200	mg/l	
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	Aldrin	AA	ug/L	0.02
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	Beta-BHC	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	Chlordane	AA	ug/L	0.10
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	Endrin	AA	ug/L	0.02
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	PCB 1016	AA	ug/L	5.00
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	PCB 1221	AA	ug/L	5.00
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	PCB 1232	AA	ug/L	5.00
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	PCB 1242	AA	ug/L	5.00
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	PCB 1248	AA	ug/L	5.00
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	PCB 1254	AA	ug/L	5.00
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	PCB 1260	AA	ug/L	5.00
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	Surr: Decachlorobiphenyl	1.09	%	
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PEST	Surr: Tetrachloro-m-xylene	0.976	%	
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624	Chloromethane	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624	Bromomethane	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624	Chloroethane	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624	Acrolein	0	ug/L	100.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624	Acrylonitrile	0	ug/L	100.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		Methylene Chloride	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		Chloroform	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		1,2-Dichloroethane-d4	57.5	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		Benzene	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		Trichloroethene	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		Bromoform	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		Toluene	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		Toluene-d8	46.8	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		Chlorobenzene	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		Ethylbenzene	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		Bromofluorobenzene	63.2	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		2-Propanone	0	ug/L	60
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		2-Butanone	0	ug/L	60
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		Tetrahydrofuran	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$624		TOTAL AMOUNT	318	ug/L	
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		pyridine	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		n-nitrosodimethylamine	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		2-Fluorophenol	15.2	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		aniline	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Phenol-d6	10.6	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Phenol	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		2-Chlorophenol	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		n-decane	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		o-cresol	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		acetophenone	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Hexachloroethane	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Naphthalene-D8	50	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Nitrobenzene-d5	27.9	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		p-cresol	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Nitrobenzene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Isophorone	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Decafluorobiphenyl	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		2-Nitrophenol	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		2,4-Dimethylphenol	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		2,4-Dichlorophenol	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Naphthalene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		1-Fluoronaphthalene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		alpha terpineol	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Hexachlorobutadiene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		4-Chloro-3-methylphenol	AA	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Acenaphthene-d10	50	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		2,3 dichloroaniline	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		2-Chloronaphthalene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Dimethyl phthalate	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Acenaphthylene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		2,6-Dinitrotoluene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Acenaphthene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		2,4-Dinitrophenol	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		4-Nitrophenol	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		2,4-Dinitrotoluene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Diethyl phthalate	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Fluorene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Phenanthrene-D10	50	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		n-nitrosodiphenylamine	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		2,4,6-Tribromophenol	28.8	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Hexachlorobenzene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Pentachlorophenol	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		n-octadecane	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Phenanthrene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Anthracene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		carbazole	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Di-n-butyl phthalate	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Fluoranthene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Chrysene-d12	50	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Benzidine	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Pyrene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Butyl benzyl phthalate	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Benzo(a)anthracene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Chrysene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Di-n-octyl phthalate	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Perylene-D12	50	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Benzo(b)fluoranthene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Benzo(k)fluoranthene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Benzo(a)pyrene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$625		Benzo(ghi)perylene	AA	ug/L	3.0
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PAHS		Acenaphthene	AA	ug/L	3
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PAHS		Acenaphthylene	AA	ug/L	3
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PAHS		Anthracene	AA	ug/L	3
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PAHS		Benz(a)anthracene	AA	ug/L	3
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PAHS		Benzo(a)pyrene	AA	ug/L	3
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PAHS		Benzo(b)fluoranthene	AA	ug/L	3
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PAHS		Benzo(g,h,i)perylene	AA	ug/L	3
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PAHS		Benzo(k)fluoranthene	AA	ug/L	3
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PAHS		Chrysene	AA	ug/L	3
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PAHS		Dibenz(a,h)anthracene	AA	ug/L	3
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PAHS		Fluoranthene	AA	ug/L	3
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PAHS		Fluorene	AA	ug/L	3
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PAHS		Indeno(1,2,3-cd)pyrene	AA	ug/L	3
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PAHS		Naphthalene	AA	ug/L	3
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PAHS		Phenanthrene	AA	ug/L	3
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PAHS		Pyrene	AA	ug/L	3
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PAHS		Surr: 2-Fluorobiphenyl	29.4	%	
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PAHS		Surr: 4-Terphenyl-d14	45.4	%	
AC06905	LM77	Little Miami Watershed	77	9/13/2012	10:30	\$PAHS		Surr: Nitrobenzene-d5	27.9	%	
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	MF_CF		Fecal Coliform, Membrane Filter	540	CFU/100mL	
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	E-COLI		E.coli (Colilert)	140	MPN	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	TDS	Total Dissolved Solids	570	mg/L	
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	SO4	Sulfate	116	mg/L	1.00
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	CL	Chloride	133	mg/L	1.00
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	TSS	Tot. Suspended Solids	3	mg/L	2
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	HARD	Hardness as CaCO3	348	mg/l	
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	COD	COD	56	mg/L	
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	725	uS/cm	
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	TEMP_FLD	Temperature (Field) Celsius	21.15	Deg C	
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	PH_FLD	pH (Field)	8.12	S.U.	
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	DO_FLD	Dissolved Oxygen (field) mg/L	7.16	mg/l	
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	783	uS/cm	
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$ICP	Antimony	0.00	mg/L	0.006
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$ICP	Arsenic	0.00	mg/L	0.012
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$ICP	Barium	0.0580	mg/L	0.003
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$ICP	Calcium	99.8	mg/L	0.066
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$ICP	Chromium	0.00	mg/L	0.006
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$ICP	Copper	0.00888	mg/L	0.006
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$ICP	Iron	0.135	mg/L	0.018
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$ICP	Lead	0.00	mg/L	0.006
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$ICP	Magnesium	22.6	mg/L	0.021
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$ICP	Manganese	0.0303	mg/L	0.009
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$ICP	Nickel	0.00	mg/L	0.003
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$ICP	Selenium	0.0226	mg/L	0.009
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$ICP	Silver	0.00	mg/L	0.003
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$ICP	Strontium	0.360	mg/L	0.009
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$ICP	Thallium	0.00	mg/L	0.012
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$ICP	Tin	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$ICP	Zinc	0.0109	mg/L	0.006
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	PB_FU	Lead by Furnace	0.92	ug/L	1.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	AS_FU	Arsenic by Furnace	7.48	ug/L	1.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	CU_FU	Copper by Furnace	9.3	ug/L	1
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	NH3	Ammonia as N	0	mg/L	0.5
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	TKN	Total Kjeldahl Nitrogen	0.5004	mg/L	0.5
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	NO2	Nitrite as N	0.009	mg/l	0.005
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	NO3	Nitrate as N (calculated)	AW	mg/l	
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	Aldrin	AA	ug/L	0.02
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	Beta-BHC	AA	ug/L	0.02
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	Delta-BHC	AA	ug/L	0.02
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	Chlordane	AA	ug/L	0.10
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	4,4-DDD	AA	ug/L	0.02
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	4,4-DDT	AA	ug/L	0.03
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	4,4-DDE	AA	ug/L	0.02
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	Dieldrin	AA	ug/L	0.02
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	Endosulfan I	AA	ug/L	0.05
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	Endosulfan II	AA	ug/L	0.02
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	Endrin	AA	ug/L	0.02
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	Heptachlor	AA	ug/L	0.02
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	Toxaphene	AA	ug/L	1.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	PCB 1016	AA	ug/L	0.5
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	PCB 1221	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	PCB 1232	AA	ug/L	0.5
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	PCB 1242	AA	ug/L	0.5
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	PCB 1248	AA	ug/L	0.5
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	PCB 1254	AA	ug/L	0.5
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	PCB 1260	AA	ug/L	0.5
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	Surr: Decachlorobiphenyl	0.915	%	
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PEST	Surr: Tetrachloro-m-xylene	1.01	%	
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	Bromochloromethane	50.0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	Chloromethane	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	Vinyl Chloride	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	Bromomethane	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	Chloroethane	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	Acrolein	0	ug/L	100.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	Acrylonitrile	0	ug/L	100.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	Methylene Chloride	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	Chloroform	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	1,2-Dichloroethane-d4	58.6	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	Benzene	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	Trichloroethene	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	Bromodichloromethane	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624	1,1,2-Trichloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624		Dibromochloromethane	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624		Bromoform	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624		Tetrachloroethene	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624		Toluene	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624		Toluene-d8	46.7	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624		Chlorobenzene	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624		Ethylbenzene	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624		Bromofluorobenzene	62.8	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624		2-Propanone	0	ug/L	60
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624		2-Butanone	0	ug/L	60
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624		Tetrahydrofuran	0	ug/L	
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624		2-chloroethoxy ethene	0	ug/L	
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$624		TOTAL AMOUNT	318	ug/L	
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		pyridine	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		n-nitrosodimethylamine	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		2-Fluorophenol	14.9	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		aniline	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Phenol-d6	11.1	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Phenol	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		2-Chlorophenol	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		n-decane	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		o-cresol	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		acetophenone	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Hexachloroethane	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Naphthalene-D8	50	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Nitrobenzene-d5	28.0	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		p-cresol	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Nitrobenzene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Isophorone	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Decafluorobiphenyl	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		2-Nitrophenol	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		2,4-Dimethylphenol	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		2,4-Dichlorophenol	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Naphthalene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		1-Fluoronaphthalene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		alpha terpineol	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Hexachlorobutadiene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		4-Chloro-3-methylphenol	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Acenaphthene-d10	50	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Hexachlorocyclopentadiene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		2,3 dichloroaniline	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		2,4,6-Trichlorophenol	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		2-Chloronaphthalene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Dimethyl phthalate	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Acenaphthylene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		2,6-Dinitrotoluene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Acenaphthene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		2,4-Dinitrophenol	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		4-Nitrophenol	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		2,4-Dinitrotoluene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Diethyl phthalate	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Fluorene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Phenanthrene-D10	50	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		4,6-Dinitro-o-cresol	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		n-nitrosodiphenylamine	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		1,2-Diphenylhydrazine	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		2,4,6-Tribromophenol	25.7	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Hexachlorobenzene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Pentachlorophenol	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		n-octadecane	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Phenanthrene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Anthracene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		carbazole	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Di-n-butyl phthalate	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Fluoranthene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Chrysene-d12	50	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Benzidine	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Pyrene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Butyl benzyl phthalate	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		3,3-Dichlorobenzidine	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Benzo(a)anthracene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Chrysene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Di-n-octyl phthalate	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Perylene-D12	50	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Benzo(b)fluoranthene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Benzo(k)fluoranthene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Benzo(a)pyrene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$625		Benzo(ghi)perylene	AA	ug/L	3.0
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PAHS		Acenaphthene	AA	ug/L	3
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PAHS		Acenaphthylene	AA	ug/L	3
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PAHS		Anthracene	AA	ug/L	3
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PAHS		Benz(a)anthracene	AA	ug/L	3
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PAHS		Benzo(a)pyrene	AA	ug/L	3



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PAHS	Benzo(b)fluoranthene	AA	ug/L	3
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PAHS	Benzo(g,h,i)perylene	AA	ug/L	3
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PAHS	Benzo(k)fluoranthene	AA	ug/L	3
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PAHS	Chrysene	AA	ug/L	3
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PAHS	Dibenz(a,h)anthracene	AA	ug/L	3
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PAHS	Fluoranthene	AA	ug/L	3
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PAHS	Fluorene	AA	ug/L	3
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PAHS	Indeno(1,2,3-cd)pyrene	AA	ug/L	3
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PAHS	Naphthalene	AA	ug/L	3
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PAHS	Phenanthrene	AA	ug/L	3
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PAHS	Pyrene	AA	ug/L	3
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PAHS	Surr: 2-Fluorobiphenyl	30.0	%	
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PAHS	Surr: 4-Terphenyl-d14	42.3	%	
AC06906	LM79	Little Miami Watershed	79	9/13/2012	10:50	\$PAHS	Surr: Nitrobenzene-d5	28.0	%	
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	MF_CF	Fecal Coliform, Membrane Filter	477	CFU/100mL	
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	E-COLI	E.coli (Colilert)	166	MPN	
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	TDS	Total Dissolved Solids	670	mg/L	
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	SO4	Sulfate	82.0	mg/L	25.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	CL	Chloride	266	mg/L	4.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	TSS	Tot. Suspended Solids	10	mg/L	2
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	HARD	Hardness as CaCO3	422	mg/l	
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	COD	COD	5	mg/L	
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	801	uS/cm	
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	TEMP_FLD	Temperature (Field) Celsius	17.69	Deg C	
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	PH_FLD	pH (Field)	8.22	S.U.	
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	DO_FLD	Dissolved Oxygen (field) mg/L	9.35	mg/l	
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	931	uS/cm	
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$ICP	Antimony	0.00	mg/L	0.006
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$ICP	Arsenic	0.00	mg/L	0.012
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$ICP	Barium	0.0703	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$ICP	Calcium	128	mg/L	0.066
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$ICP	Chromium	0.00	mg/L	0.006
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$ICP	Copper	0.00720	mg/L	0.006
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$ICP	Iron	0.103	mg/L	0.018
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$ICP	Lead	0.00	mg/L	0.006
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$ICP	Magnesium	30.2	mg/L	0.021
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$ICP	Manganese	0.0275	mg/L	0.009
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$ICP	Nickel	0.00308	mg/L	0.003
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$ICP	Selenium	0.0371	mg/L	0.009
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$ICP	Silver	0.00	mg/L	0.003
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$ICP	Strontium	0.429	mg/L	0.009
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$ICP	Thallium	0.00	mg/L	0.012
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$ICP	Tin	0.00	mg/L	0.006
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$ICP	Zinc	0.00720	mg/L	0.006
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	PB_FU	Lead by Furnace	0.05	ug/L	1.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	AS_FU	Arsenic by Furnace	1.34	ug/L	1.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	CU_FU	Copper by Furnace	2.1	ug/L	1
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	NH3	Ammonia as N	0	mg/L	0.5
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	TKN	Total Kjeldahl Nitrogen	0.6623	mg/L	0.5
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	NO2	Nitrite as N	0.0026	mg/l	0.005
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$PEST	Aldrin	AA	ug/L	0.02
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$PEST	Delta-BHC	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$PEST		Gamma-BHC	AA	ug/L	0.02
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$PEST		Chlordane	AA	ug/L	0.10
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$PEST		4,4-DDD	AA	ug/L	0.02
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$PEST		4,4-DDT	AA	ug/L	0.03
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$PEST		4,4-DDE	AA	ug/L	0.02
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$PEST		Dieldrin	AA	ug/L	0.02
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$PEST		Endosulfan I	AA	ug/L	0.05
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$PEST		Endosulfan II	AA	ug/L	0.02
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$PEST		Endosulfan sulfate	AA	ug/L	0.05
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$PEST		Endrin	AA	ug/L	0.02
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$PEST		Endrin aldehyde	AA	ug/L	0.02
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$PEST		Heptachlor	AA	ug/L	0.02
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$PEST		Heptachlor epoxide	AA	ug/L	0.05
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$PEST		Toxaphene	AA	ug/L	1.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$PEST		PCB 1016	AA	ug/L	0.5
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$PEST		PCB 1221	AA	ug/L	0.5
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$PEST		PCB 1232	AA	ug/L	0.5
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$PEST		PCB 1242	AA	ug/L	0.5
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$PEST		PCB 1248	AA	ug/L	0.5
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$PEST		PCB 1254	AA	ug/L	0.5
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$PEST		PCB 1260	AA	ug/L	0.5
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$PEST		Surr: Decachlorobiphenyl	0.852	%	
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$PEST		Surr: Tetrachloro-m-xylene	1.04	%	
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$624		Bromochloromethane	50.0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$624		Chloromethane	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$624		Vinyl Chloride	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$624		Bromomethane	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$624		Chloroethane	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$624		Acrolein	0	ug/L	100.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$624		Acrylonitrile	0	ug/L	100.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$624		Methylene Chloride	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	Chloroform	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	1,2-Dichloroethane-d4	51.1	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	Benzene	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	Trichloroethene	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	Bromodichloromethane	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	Dibromochloromethane	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	Bromoform	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	Tetrachloroethene	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	Toluene	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	Toluene-d8	55.2	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	Chlorobenzene	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	Ethylbenzene	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	Bromofluorobenzene	96.2	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	2-Propanone	0	ug/L	60
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	2-Butanone	0	ug/L	60
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	Tetrahydrofuran	1	ug/L	
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	2-chloroethoxy ethene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$624	TOTAL AMOUNT	416	ug/L	
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	1,4-Dichlorobenzene-D4	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	pyridine	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	n-nitrosodimethylamine	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	2-Fluorophenol	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	aniline	AW	ug/L	6.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	Phenol-d6	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	Phenol	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	Bis(2-Chloroethyl)ether	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	2-Chlorophenol	AW	ug/L	6.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	n-decane	AW	ug/L	6.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	Bis(2-chloroisopropyl)ether	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	o-cresol	AW	ug/L	6.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	acetophenone	AW	ug/L	6.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	n-nitrosodi-n-propylamine	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	Hexachloroethane	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	Naphthalene-D8	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	Nitrobenzene-d5	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	p-cresol	AW	ug/L	6.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	Nitrobenzene	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	Isophorone	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	Decafluorobiphenyl	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	2-Nitrophenol	AW	ug/L	6.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	2,4-Dimethylphenol	AW	ug/L	6.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	bis(2-Chloroethoxy)methane	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	2,4-Dichlorophenol	AW	ug/L	6.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	1,2,4-Trichlorobenzene	AW	ug/L	6.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	Naphthalene	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	1-Fluoronaphthalene	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	alpha terpineol	AW	ug/L	6.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	Hexachlorobutadiene	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	4-Chloro-3-methylphenol	AW	ug/L	6.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	Acenaphthene-d10	AW	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		Hexachlorocyclopentadiene	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		2,3 dichloroaniline	AW	ug/L	6.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		2,4,6-Trichlorophenol	AW	ug/L	6.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		2-Chloronaphthalene	AW	ug/L	6.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		Dimethyl phthalate	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		Acenaphthylene	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		2,6-Dinitrotoluene	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		Acenaphthene	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		2,4-Dinitrophenol	AW	ug/L	6.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		4-Nitrophenol	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		2,4-Dinitrotoluene	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		Diethyl phthalate	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		4-Chlorophenyl phenyl ether	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		Fluorene	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		Phenanthrene-D10	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		4,6-Dinitro-o-cresol	AW	ug/L	7.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		n-nitrosodiphenylamine	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		1,2-Diphenylhydrazine	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		2,4,6-Tribromophenol	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		4-Bromophenyl phenyl ether	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		Hexachlorobenzene	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		Pentachlorophenol	AW	ug/L	6.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		n-octadecane	AW	ug/L	6.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		Phenanthrene	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		Anthracene	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		carbazole	AW	ug/L	6.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		Di-n-butyl phthalate	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		Fluoranthene	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		Chrysene-d12	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		Benzidine	AW	ug/L	6.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		Pyrene	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		Butyl benzyl phthalate	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012 08:40	\$625		3,3-Dichlorobenzidine	AW	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Analysis Code	Analysis Description	Results	Units	MDL
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	Benzo(a)anthracene	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	Chrysene	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	bis(2-ethylhexyl)phthalate	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	Di-n-octyl phthalate	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	Perylene-D12	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	Benzo(b)fluoranthene	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	Benzo(k)fluoranthene	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	Benzo(a)pyrene	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	Indeno(1,2,3-cd)pyrene	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	Dibenzo(a,h)anthracene	AW	ug/L	3.0
AC07035	LM46	Little Miami Watershed	46	9/14/2012	08:40	\$625	Benzo(ghi)perylene	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	MF_CF	Fecal Coliform, Membrane Filter	250	CFU/100mL	
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	E-COLI	E.coli (Colilert)	261	MPN	
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	TDS	Total Dissolved Solids	690	mg/L	
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	SO4	Sulfate	59.5	mg/L	12.5
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	CL	Chloride	250	mg/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	TSS	Tot. Suspended Solids	16	mg/L	2
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	SSC	Suspended Sediment Concentration	5.0	mg/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	HARD	Hardness as CaCO3	364	mg/l	
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	COD	COD	5	mg/L	
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	793	uS/cm	
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	TEMP_FLD	Temperature (Field) Celsius	18.53	Deg C	
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	PH_FLD	pH (Field)	8.18	S.U.	
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	DO_FLD	Dissolved Oxygen (field) mg/L	8.80	mg/l	
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	905	uS/cm	
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$ICP	Aluminum	0.00	mg/L	0.348
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$ICP	Antimony	0.00	mg/L	0.006
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$ICP	Arsenic	0.00	mg/L	0.012
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$ICP	Barium	0.0470	mg/L	0.003
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$ICP	Calcium	102	mg/L	0.066

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$ICP	Chromium	0.00	mg/L	0.006
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$ICP	Copper	0.00786	mg/L	0.006
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$ICP	Iron	0.0834	mg/L	0.018
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$ICP	Lead	0.00	mg/L	0.006
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$ICP	Magnesium	22.3	mg/L	0.021
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$ICP	Manganese	0.0208	mg/L	0.009
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$ICP	Nickel	0.00312	mg/L	0.003
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$ICP	Selenium	0.0337	mg/L	0.009
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$ICP	Silver	0.00	mg/L	0.003
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$ICP	Strontium	0.307	mg/L	0.009
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$ICP	Thallium	0.00	mg/L	0.012
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$ICP	Tin	0.00	mg/L	0.006
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$ICP	Zinc	0.00842	mg/L	0.006
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	PB_FU	Lead by Furnace	0.10	ug/L	1.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	AS_FU	Arsenic by Furnace	1.13	ug/L	1.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	CU_FU	Copper by Furnace	2.9	ug/L	1
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	NH3	Ammonia as N	0	mg/L	0.5
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	NO2	Nitrite as N	0.007	mg/l	0.005
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	CHLOROPHYLL	Chlorophyll	7.48	mg/m3	1.00
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	Aldrin	AA	ug/L	0.02
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	Chlordane	AA	ug/L	0.10
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	4,4-DDD	AA	ug/L	0.02



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	Dieldrin	AA	ug/L	0.02
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	Endrin	AA	ug/L	0.02
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	Heptachlor	AA	ug/L	0.02
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	Toxaphene	AA	ug/L	1.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	PCB 1016	AA	ug/L	0.5
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	PCB 1221	AA	ug/L	0.5
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	PCB 1232	AA	ug/L	0.5
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	PCB 1242	AA	ug/L	0.5
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	PCB 1248	AA	ug/L	0.5
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	PCB 1254	AA	ug/L	0.5
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	PCB 1260	AA	ug/L	0.5
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	Surr: Decachlorobiphenyl	0.894	%	
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$PEST	Surr: Tetrachloro-m-xylene	1.02	%	
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Chloromethane	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Vinyl Chloride	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Bromomethane	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Chloroethane	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Acrolein	0	ug/L	100.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Acrylonitrile	0	ug/L	100.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Methylene Chloride	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Chloroform	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	1,2-Dichloroethane-d4	51.0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Benzene	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Trichloroethene	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Bromodichloromethane	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Dibromochloromethane	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Bromoform	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Tetrachloroethene	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Toluene	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Toluene-d8	55.1	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Chlorobenzene	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Ethylbenzene	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Bromofluorobenzene	98.3	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	2-Propanone	0	ug/L	60
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	2-Butanone	0	ug/L	60
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	Tetrahydrofuran	0	ug/L	
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	2-chloroethoxy ethene	0	ug/L	
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$624	TOTAL AMOUNT	409	ug/L	
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	1,4-Dichlorobenzene-D4	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	pyridine	AW	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	n-nitrosodimethylamine	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	2-Fluorophenol	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	aniline	AW	ug/L	6.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Phenol-d6	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Phenol	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Bis(2-Chloroethyl)ether	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	2-Chlorophenol	AW	ug/L	6.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	n-decane	AW	ug/L	6.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Bis(2-chloroisopropyl)ether	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	o-cresol	AW	ug/L	6.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	acetophenone	AW	ug/L	6.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	n-nitrosodi-n-propylamine	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Hexachloroethane	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Naphthalene-D8	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Nitrobenzene-d5	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	p-cresol	AW	ug/L	6.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Nitrobenzene	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Isophorone	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Decafluorobiphenyl	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	2-Nitrophenol	AW	ug/L	6.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	2,4-Dimethylphenol	AW	ug/L	6.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	bis(2-Chloroethoxy)methane	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	2,4-Dichlorophenol	AW	ug/L	6.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	1,2,4-Trichlorobenzene	AW	ug/L	6.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Naphthalene	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	1-Fluoronaphthalene	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	alpha terpineol	AW	ug/L	6.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Hexachlorobutadiene	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	4-Chloro-3-methylphenol	AW	ug/L	6.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Acenaphthene-d10	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Hexachlorocyclopentadiene	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	2,3 dichloroaniline	AW	ug/L	6.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	2,4,6-Trichlorophenol	AW	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	2-Chloronaphthalene	AW	ug/L	6.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Dimethyl phthalate	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Acenaphthylene	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	2,6-Dinitrotoluene	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Acenaphthene	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	2,4-Dinitrophenol	AW	ug/L	6.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	4-Nitrophenol	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	2,4-Dinitrotoluene	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Diethyl phthalate	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	4-Chlorophenyl phenyl ether	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Fluorene	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Phenanthrene-D10	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	4,6-Dinitro-o-cresol	AW	ug/L	7.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	n-nitrosodiphenylamine	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	1,2-Diphenylhydrazine	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	2,4,6-Tribromophenol	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	4-Bromophenyl phenyl ether	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Hexachlorobenzene	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Pentachlorophenol	AW	ug/L	6.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	n-octadecane	AW	ug/L	6.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Phenanthrene	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Anthracene	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	carbazole	AW	ug/L	6.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Di-n-butyl phthalate	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Fluoranthene	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Chrysene-d12	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Benzidine	AW	ug/L	6.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Pyrene	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Butyl benzyl phthalate	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	3,3-Dichlorobenzidine	AW	ug/L	6.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Benzo(a)anthracene	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Chrysene	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	bis(2-ethylhexyl)phthalate	AW	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Di-n-octyl phthalate	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Perylene-D12	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Benzo(b)fluoranthene	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Benzo(k)fluoranthene	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Benzo(a)pyrene	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Indeno(1,2,3-cd)pyrene	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Dibenzo(a,h)anthracene	AW	ug/L	3.0
AC07036	LM58	Little Miami Watershed	58	9/14/2012	09:10	\$625	Benzo(ghi)perylene	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	MF_CF	Fecal Coliform, Membrane Filter	164	CFU/100mL	
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	E-COLI	E.coli (Colilert)	142	MPN	
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	TDS	Total Dissolved Solids	690	mg/L	
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	SO4	Sulfate	95.5	mg/L	25.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	CL	Chloride	251	mg/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	TSS	Tot. Suspended Solids	8	mg/L	2
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	HARD	Hardness as CaCO3	292	mg/l	
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	COD	COD	5	mg/L	
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	830	uS/cm	
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	TEMP_FLD	Temperature (Field) Celsius	18.55	Deg C	
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	PH_FLD	pH (Field)	8.07	S.U.	
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	DO_FLD	Dissolved Oxygen (field) mg/L	9.21	mg/l	
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	CONDUCTIVITY	Specific Conductivity (uS/cm)	946	uS/cm	
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$ICP	Aluminum	0.00	mg/L	0.348
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$ICP	Antimony	0.00	mg/L	0.006
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$ICP	Arsenic	0.00	mg/L	0.012
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$ICP	Barium	0.0581	mg/L	0.003
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$ICP	Beryllium	0.00	mg/L	0.009
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$ICP	Cadmium	0.00	mg/L	0.012
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$ICP	Calcium	85.7	mg/L	0.066
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$ICP	Chromium	0.00	mg/L	0.006
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$ICP	Cobalt	0.00	mg/L	0.006
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$ICP	Copper	0.00763	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$ICP	Iron	0.116	mg/L	0.018
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$ICP	Lead	0.00	mg/L	0.006
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$ICP	Magnesium	25.2	mg/L	0.021
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$ICP	Manganese	0.0308	mg/L	0.009
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$ICP	Nickel	0.00372	mg/L	0.003
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$ICP	Selenium	0.0251	mg/L	0.009
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$ICP	Silver	0.00	mg/L	0.003
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$ICP	Strontium	0.367	mg/L	0.009
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$ICP	Thallium	0.0154	mg/L	0.012
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$ICP	Tin	0.00	mg/L	0.006
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$ICP	Vanadium	0.00	mg/L	0.018
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$ICP	Zinc	0.00689	mg/L	0.006
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	PB_FU	Lead by Furnace	0.11	ug/L	1.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	AS_FU	Arsenic by Furnace	1.21	ug/L	1.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	CU_FU	Copper by Furnace	3.6	ug/L	1
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	NH3	Ammonia as N	0	mg/L	0.5
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	NO3NO2	Nitrate + Nitrite	0.525	mg/L	0.5
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	NO2	Nitrite as N	0.0048	mg/l	0.005
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	NO3	Nitrate as N (calculated)	0.5202	mg/l	
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	Aldrin	AA	ug/L	0.02
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	Chlordane	AA	ug/L	0.10
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	Dieldrin	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	Endrin	AA	ug/L	0.02
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	Heptachlor	AA	ug/L	0.02
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	Toxaphene	AA	ug/L	1.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	PCB 1016	AA	ug/L	0.5
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	PCB 1221	AA	ug/L	0.5
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	PCB 1232	AA	ug/L	0.5
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	PCB 1242	AA	ug/L	0.5
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	PCB 1248	AA	ug/L	0.5
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	PCB 1254	AA	ug/L	0.5
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	PCB 1260	AA	ug/L	0.5
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	Surr: Decachlorobiphenyl	0.996	%	
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$PEST	Surr: Tetrachloro-m-xylene	0.850	%	
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Chloromethane	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Vinyl Chloride	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Bromomethane	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Chloroethane	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Acrolein	0	ug/L	100.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Acrylonitrile	0	ug/L	100.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Methylene Chloride	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Chloroform	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	1,2-Dichloroethane-d4	49.9	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Benzene	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Trichloroethene	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Bromodichloromethane	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Dibromochloromethane	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Bromoform	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Tetrachloroethene	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	1,1,2,2-Tetrachloroethane	13.6	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Toluene	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Toluene-d8	51.7	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Chlorobenzene	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Ethylbenzene	0	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Bromofluorobenzene	73.7	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	1,3-Dichlorobenzene	9.4	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	1,4-Dichlorobenzene	11.5	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	1,2-Dichlorobenzene	14.3	ug/L	5.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	2-Propanone	0	ug/L	60
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	2-Butanone	0	ug/L	60
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	Tetrahydrofuran	1	ug/L	
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	2-chloroethoxy ethene	4	ug/L	
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$624	TOTAL AMOUNT	452	ug/L	
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	1,4-Dichlorobenzene-D4	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	pyridine	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	n-nitrosodimethylamine	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	2-Fluorophenol	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	aniline	AW	ug/L	6.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Phenol-d6	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Phenol	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Bis(2-Chloroethyl)ether	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	2-Chlorophenol	AW	ug/L	6.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	n-decane	AW	ug/L	6.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Bis(2-chloroisopropyl)ether	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	o-cresol	AW	ug/L	6.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	acetophenone	AW	ug/L	6.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	n-nitrosodi-n-propylamine	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Hexachloroethane	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Naphthalene-D8	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Nitrobenzene-d5	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	p-cresol	AW	ug/L	6.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Nitrobenzene	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Isophorone	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Decafluorobiphenyl	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	2-Nitrophenol	AW	ug/L	6.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	2,4-Dimethylphenol	AW	ug/L	6.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	bis(2-Chloroethoxy)methane	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	2,4-Dichlorophenol	AW	ug/L	6.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	1,2,4-Trichlorobenzene	AW	ug/L	6.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Naphthalene	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	1-Fluoronaphthalene	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	alpha terpineol	AW	ug/L	6.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Hexachlorobutadiene	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	4-Chloro-3-methylphenol	AW	ug/L	6.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Acenaphthene-d10	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Hexachlorocyclopentadiene	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	2,3 dichloroaniline	AW	ug/L	6.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	2,4,6-Trichlorophenol	AW	ug/L	6.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	2-Chloronaphthalene	AW	ug/L	6.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Dimethyl phthalate	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Acenaphthylene	AW	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	2,6-Dinitrotoluene	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Acenaphthene	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	2,4-Dinitrophenol	AW	ug/L	6.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	4-Nitrophenol	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	2,4-Dinitrotoluene	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Diethyl phthalate	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	4-Chlorophenyl phenyl ether	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Fluorene	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Phenanthrene-D10	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	4,6-Dinitro-o-cresol	AW	ug/L	7.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	n-nitrosodiphenylamine	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	1,2-Diphenylhydrazine	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	2,4,6-Tribromophenol	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	4-Bromophenyl phenyl ether	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Hexachlorobenzene	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Pentachlorophenol	AW	ug/L	6.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	n-octadecane	AW	ug/L	6.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Phenanthrene	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Anthracene	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	carbazole	AW	ug/L	6.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Di-n-butyl phthalate	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Fluoranthene	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Chrysene-d12	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Benzidine	AW	ug/L	6.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Pyrene	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Butyl benzyl phthalate	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	3,3-Dichlorobenzidine	AW	ug/L	6.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Benzo(a)anthracene	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Chrysene	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	bis(2-ethylhexyl)phthalate	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Di-n-octyl phthalate	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Perylene-D12	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Benzo(b)fluoranthene	AW	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Analysis Code	Analysis Description	Results	Units	MDL
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Benzo(k)fluoranthene	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Benzo(a)pyrene	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Indeno(1,2,3-cd)pyrene	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Dibenzo(a,h)anthracene	AW	ug/L	3.0
AC07037	LM57	Little Miami Watershed	57	9/14/2012	09:25	\$625	Benzo(ghi)perylene	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	MF_CF	Fecal Coliform, Membrane Filter	43	CFU/100mL	
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	E-COLI	E.coli (Colilert)	96	MPN	
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	TDS	Total Dissolved Solids	520	mg/L	
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	SO4	Sulfate	50.5	mg/L	12.5
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	CL	Chloride	267	mg/L	4.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	TSS	Tot. Suspended Solids	8	mg/L	2
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	HARD	Hardness as CaCO3	294	mg/l	
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	COD	COD	22	mg/L	
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	636	uS/cm	
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	TEMP_FLD	Temperature (Field) Celsius	18.96	Deg C	
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	PH_FLD	pH (Field)	7.95	S.U.	
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	DO_FLD	Dissolved Oxygen (field) mg/L	7.16	mg/l	
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	CONDUCTIVITY	Specific Conductivity (uS/cm)	719	uS/cm	
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$ICP	Aluminum	0.00	mg/L	0.348
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$ICP	Antimony	0.00	mg/L	0.006
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$ICP	Arsenic	0.00	mg/L	0.012
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$ICP	Barium	0.0449	mg/L	0.003
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$ICP	Beryllium	0.00	mg/L	0.009
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$ICP	Cadmium	0.00	mg/L	0.012
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$ICP	Calcium	79.9	mg/L	0.066
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$ICP	Chromium	0.00	mg/L	0.006
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$ICP	Cobalt	0.00	mg/L	0.006
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$ICP	Copper	0.00815	mg/L	0.006
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$ICP	Iron	0.0768	mg/L	0.018
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$ICP	Lead	0.00	mg/L	0.006
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$ICP	Magnesium	18.5	mg/L	0.021

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$ICP	Manganese	0.0170	mg/L	0.009
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$ICP	Nickel	0.00	mg/L	0.003
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$ICP	Selenium	0.0283	mg/L	0.009
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$ICP	Silver	0.00	mg/L	0.003
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$ICP	Strontium	0.274	mg/L	0.009
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$ICP	Thallium	0.00	mg/L	0.012
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$ICP	Tin	0.00	mg/L	0.006
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$ICP	Vanadium	0.00	mg/L	0.018
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$ICP	Zinc	0.0179	mg/L	0.006
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	PB_FU	Lead by Furnace	0.42	ug/L	1.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	AS_FU	Arsenic by Furnace	1.28	ug/L	1.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	CU_FU	Copper by Furnace	3.8	ug/L	1
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	NH3	Ammonia as N	0	mg/L	0.5
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	NO3NO2	Nitrate + Nitrite	5.71	mg/L	0.5
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	NO2	Nitrite as N	0.005	mg/l	0.005
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	NO3	Nitrate as N (calculated)	5.7050	mg/l	
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	Aldrin	AA	ug/L	0.02
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	Chlordane	AA	ug/L	0.10
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	Dieldrin	AA	ug/L	0.02
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	Endosulfan sulfate	AA	ug/L	0.05

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	Endrin	AA	ug/L	0.02
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	Heptachlor	AA	ug/L	0.02
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	Toxaphene	AA	ug/L	1.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	PCB 1016	AA	ug/L	0.5
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	PCB 1221	AA	ug/L	0.5
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	PCB 1232	AA	ug/L	0.5
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	PCB 1242	AA	ug/L	0.5
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	PCB 1248	AA	ug/L	0.5
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	PCB 1254	AA	ug/L	0.5
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	PCB 1260	AA	ug/L	0.5
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	Surr: Decachlorobiphenyl	0.978	%	
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$PEST	Surr: Tetrachloro-m-xylene	0.902	%	
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Chloromethane	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Vinyl Chloride	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Bromomethane	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Chloroethane	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Acrolein	0	ug/L	100.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Acrylonitrile	0	ug/L	100.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Methylene Chloride	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Chloroform	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	1,2-Dichloroethane-d4	49.8	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Benzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Trichloroethene	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Bromodichloromethane	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Dibromochloromethane	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Bromoform	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Tetrachloroethene	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Toluene	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Toluene-d8	49.6	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Chlorobenzene	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Ethylbenzene	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Bromofluorobenzene	73.2	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	2-Propanone	0	ug/L	60
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	2-Butanone	0	ug/L	60
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	Tetrahydrofuran	1	ug/L	
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	2-chloroethoxy ethene	0	ug/L	
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$624	TOTAL AMOUNT	393	ug/L	
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	1,4-Dichlorobenzene-D4	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	pyridine	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	n-nitrosodimethylamine	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	2-Fluorophenol	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	aniline	AW	ug/L	6.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Phenol-d6	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Phenol	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Bis(2-Chloroethyl)ether	AW	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	2-Chlorophenol	AW	ug/L	6.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	n-decane	AW	ug/L	6.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Bis(2-chloroisopropyl)ether	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	o-cresol	AW	ug/L	6.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	acetophenone	AW	ug/L	6.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	n-nitrosodi-n-propylamine	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Hexachloroethane	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Naphthalene-D8	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Nitrobenzene-d5	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	p-cresol	AW	ug/L	6.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Nitrobenzene	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Isophorone	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Decafluorobiphenyl	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	2-Nitrophenol	AW	ug/L	6.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	2,4-Dimethylphenol	AW	ug/L	6.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	bis(2-Chloroethoxy)methane	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	2,4-Dichlorophenol	AW	ug/L	6.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	1,2,4-Trichlorobenzene	AW	ug/L	6.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Naphthalene	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	1-Fluoronaphthalene	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	alpha terpineol	AW	ug/L	6.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Hexachlorobutadiene	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	4-Chloro-3-methylphenol	AW	ug/L	6.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Acenaphthene-d10	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Hexachlorocyclopentadiene	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	2,3 dichloroaniline	AW	ug/L	6.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	2,4,6-Trichlorophenol	AW	ug/L	6.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	2-Chloronaphthalene	AW	ug/L	6.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Dimethyl phthalate	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Acenaphthylene	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	2,6-Dinitrotoluene	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Acenaphthene	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	2,4-Dinitrophenol	AW	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	4-Nitrophenol	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	2,4-Dinitrotoluene	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Diethyl phthalate	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	4-Chlorophenyl phenyl ether	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Fluorene	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Phenanthrene-D10	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	4,6-Dinitro-o-cresol	AW	ug/L	7.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	n-nitrosodiphenylamine	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	1,2-Diphenylhydrazine	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	2,4,6-Tribromophenol	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	4-Bromophenyl phenyl ether	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Hexachlorobenzene	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Pentachlorophenol	AW	ug/L	6.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	n-octadecane	AW	ug/L	6.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Phenanthrene	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Anthracene	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	carbazole	AW	ug/L	6.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Di-n-butyl phthalate	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Fluoranthene	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Chrysene-d12	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Benzidine	AW	ug/L	6.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Pyrene	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Butyl benzyl phthalate	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	3,3-Dichlorobenzidine	AW	ug/L	6.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Benzo(a)anthracene	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Chrysene	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	bis(2-ethylhexyl)phthalate	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Di-n-octyl phthalate	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Perylene-D12	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Benzo(b)fluoranthene	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Benzo(k)fluoranthene	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Benzo(a)pyrene	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Indeno(1,2,3-cd)pyrene	AW	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Dibenzo(a,h)anthracene	AW	ug/L	3.0
AC07038	LM59	Little Miami Watershed	59	9/14/2012	09:55	\$625	Benzo(ghi)perylene	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	MF_CF	Fecal Coliform, Membrane Filter	86	CFU/100mL	
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	E-COLI	E.coli (Colilert)	147	MPN	
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	TDS	Total Dissolved Solids	460	mg/L	
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	SO4	Sulfate	43.5	mg/L	12.5
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	CL	Chloride	87.7	mg/L	1.00
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	TSS	Tot. Suspended Solids	12	mg/L	2
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	HARD	Hardness as CaCO3	264	mg/l	
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	COD	COD	5	mg/L	
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	549	uS/cm	
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	TEMP_FLD	Temperature (Field) Celsius	18.32	Deg C	
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	PH_FLD	pH (Field)	7.96	S.U.	
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	DO_FLD	Dissolved Oxygen (field) mg/L	8.50	mg/l	
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	CONDUCTIVITY	Specific Conductivity (uS/cm)	629	uS/cm	
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$ICP	Aluminum	0.00	mg/L	0.348
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$ICP	Antimony	0.00	mg/L	0.006
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$ICP	Arsenic	0.00	mg/L	0.012
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$ICP	Barium	0.0523	mg/L	0.003
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$ICP	Beryllium	0.00	mg/L	0.009
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$ICP	Cadmium	0.00	mg/L	0.012
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$ICP	Calcium	85.7	mg/L	0.066
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$ICP	Chromium	0.00	mg/L	0.006
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$ICP	Cobalt	0.00	mg/L	0.006
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$ICP	Copper	0.00840	mg/L	0.006
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$ICP	Iron	0.300	mg/L	0.018
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$ICP	Lead	0.00	mg/L	0.006
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$ICP	Magnesium	17.9	mg/L	0.021
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$ICP	Manganese	0.0425	mg/L	0.009
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$ICP	Nickel	0.00356	mg/L	0.003
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$ICP	Selenium	0.0278	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$ICP	Silver	0.00	mg/L	0.003
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$ICP	Strontium	0.282	mg/L	0.009
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$ICP	Thallium	0.00	mg/L	0.012
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$ICP	Tin	0.00	mg/L	0.006
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$ICP	Vanadium	0.00	mg/L	0.018
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$ICP	Zinc	0.0109	mg/L	0.006
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	PB_FU	Lead by Furnace	0.17	ug/L	1.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	AS_FU	Arsenic by Furnace	1.03	ug/L	1.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	CU_FU	Copper by Furnace	1.8	ug/L	1
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	NH3	Ammonia as N	0	mg/L	0.5
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	NO2	Nitrite as N	0	mg/l	0.005
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	Aldrin	AA	ug/L	0.02
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	Chlordane	AA	ug/L	0.10
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	Dieldrin	AA	ug/L	0.02
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	Endrin	AA	ug/L	0.02
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	Heptachlor	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	Toxaphene	AA	ug/L	1.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	PCB 1016	AA	ug/L	0.5
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	PCB 1221	AA	ug/L	0.5
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	PCB 1232	AA	ug/L	0.5
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	PCB 1242	AA	ug/L	0.5
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	PCB 1248	AA	ug/L	0.5
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	PCB 1254	AA	ug/L	0.5
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	PCB 1260	AA	ug/L	0.5
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	Surr: Decachlorobiphenyl	0.985	%	
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$PEST	Surr: Tetrachloro-m-xylene	0.827	%	
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Chloromethane	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Vinyl Chloride	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Bromomethane	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Chloroethane	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Acrolein	0	ug/L	100.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Acrylonitrile	0	ug/L	100.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Methylene Chloride	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Chloroform	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	1,2-Dichloroethane-d4	50.0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Benzene	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Trichloroethene	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	1,2-Dichloropropane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Bromodichloromethane	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Dibromochloromethane	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Bromoform	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Tetrachloroethene	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	1,1,2,2-Tetrachloroethane	5.1	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Toluene	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Toluene-d8	50.7	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Chlorobenzene	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Ethylbenzene	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Bromofluorobenzene	76.5	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	2-Propanone	0	ug/L	60
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	2-Butanone	0	ug/L	60
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	Tetrahydrofuran	1	ug/L	
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	2-chloroethoxy ethene	0	ug/L	
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$624	TOTAL AMOUNT	392	ug/L	
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625	1,4-Dichlorobenzene-D4	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625	pyridine	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625	n-nitrosodimethylamine	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625	2-Fluorophenol	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625	aniline	AW	ug/L	6.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625	Phenol-d6	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625	Phenol	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625	Bis(2-Chloroethyl)ether	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625	2-Chlorophenol	AW	ug/L	6.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625	n-decane	AW	ug/L	6.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625	Bis(2-chloroisopropyl)ether	AW	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		o-cresol	AW	ug/L	6.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		acetophenone	AW	ug/L	6.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		n-nitrosodi-n-propylamine	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Hexachloroethane	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Naphthalene-D8	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Nitrobenzene-d5	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		p-cresol	AW	ug/L	6.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Nitrobenzene	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Isophorone	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Decafluorobiphenyl	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		2-Nitrophenol	AW	ug/L	6.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		2,4-Dimethylphenol	AW	ug/L	6.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		bis(2-Chloroethoxy)methane	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		2,4-Dichlorophenol	AW	ug/L	6.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		1,2,4-Trichlorobenzene	AW	ug/L	6.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Naphthalene	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		1-Fluoronaphthalene	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		alpha terpineol	AW	ug/L	6.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Hexachlorobutadiene	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		4-Chloro-3-methylphenol	AW	ug/L	6.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Acenaphthene-d10	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Hexachlorocyclopentadiene	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		2,3 dichloroaniline	AW	ug/L	6.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		2,4,6-Trichlorophenol	AW	ug/L	6.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		2-Chloronaphthalene	AW	ug/L	6.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Dimethyl phthalate	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Acenaphthylene	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		2,6-Dinitrotoluene	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Acenaphthene	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		2,4-Dinitrophenol	AW	ug/L	6.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		4-Nitrophenol	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		2,4-Dinitrotoluene	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Diethyl phthalate	AW	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		4-Chlorophenyl phenyl ether	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Fluorene	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Phenanthrene-D10	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		4,6-Dinitro-o-cresol	AW	ug/L	7.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		n-nitrosodiphenylamine	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		1,2-Diphenylhydrazine	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		2,4,6-Tribromophenol	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		4-Bromophenyl phenyl ether	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Hexachlorobenzene	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Pentachlorophenol	AW	ug/L	6.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		n-octadecane	AW	ug/L	6.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Phenanthrene	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Anthracene	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		carbazole	AW	ug/L	6.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Di-n-butyl phthalate	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Fluoranthene	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Chrysene-d12	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Benzidine	AW	ug/L	6.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Pyrene	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Butyl benzyl phthalate	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		3,3-Dichlorobenzidine	AW	ug/L	6.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Benzo(a)anthracene	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Chrysene	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		bis(2-ethylhexyl)phthalate	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Di-n-octyl phthalate	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Perylene-D12	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Benzo(b)fluoranthene	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Benzo(k)fluoranthene	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Benzo(a)pyrene	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Indeno(1,2,3-cd)pyrene	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Dibenzo(a,h)anthracene	AW	ug/L	3.0
AC07039	LM60	Little Miami Watershed	60	9/14/2012	10:05	\$625		Benzo(ghi)perylene	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20		MF_CF	Fecal Coliform, Membrane Filter	143	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	E-COLI	E.coli (Colilert)	140	MPN	
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	TDS	Total Dissolved Solids	410	mg/L	
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	SO4	Sulfate	38.5	mg/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	CL	Chloride	71.9	mg/L	1.00
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	TSS	Tot. Suspended Solids	22	mg/L	2
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	SSC	Suspended Sediment Concentration	18.7	mg/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	HARD	Hardness as CaCO3	346	mg/l	
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	COD	COD	11	mg/L	
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	538	uS/cm	
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	TEMP_FLD	Temperature (Field) Celsius	23.57	Deg C	
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	PH_FLD	pH (Field)	7.85	S.U.	
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	DO_FLD	Dissolved Oxygen (field) mg/L	9.60	mg/l	
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	553	uS/cm	
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	NH3	Ammonia as N	0	mg/L	0.5
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	NO3NO2	Nitrate + Nitrite	1.21	mg/L	0.5
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	TKN	Total Kjeldahl Nitrogen	0.5450	mg/L	0.5
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	NO2	Nitrite as N	0.012	mg/l	0.005
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	NO3	Nitrate as N (calculated)	1.1980	mg/l	
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	CHLOROPHYLL	Chlorophyll	4.27	mg/m3	1.00
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	Aldrin	AA	ug/L	0.02
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	Chlordane	AA	ug/L	0.10
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	Dieldrin	AA	ug/L	0.02
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	Endosulfan II	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	Endrin	AA	ug/L	0.02
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	Heptachlor	AA	ug/L	0.02
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	Toxaphene	AA	ug/L	1.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	PCB 1016	AA	ug/L	0.5
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	PCB 1221	AA	ug/L	0.5
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	PCB 1232	AA	ug/L	0.5
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	PCB 1242	AA	ug/L	0.5
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	PCB 1248	AA	ug/L	0.5
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	PCB 1254	AA	ug/L	0.5
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	PCB 1260	AA	ug/L	0.5
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	Surr: Decachlorobiphenyl	0.950	%	
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$PEST	Surr: Tetrachloro-m-xylene	1.05	%	
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624	Chloromethane	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624	Vinyl Chloride	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624	Bromomethane	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624	Chloroethane	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624	Acrolein	0	ug/L	100.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624	Acrylonitrile	0	ug/L	100.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624	Methylene Chloride	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624	Chloroform	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624	1,2-Dichloroethane-d4	50.6	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624	Carbon Tetrachloride	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		Benzene	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		Trichloroethene	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		Bromodichloromethane	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		Dibromochloromethane	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		Bromoform	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		Tetrachloroethene	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		Toluene	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		Toluene-d8	51.1	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		Chlorobenzene	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		Ethylbenzene	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		Bromofluorobenzene	77.9	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		2-Propanone	0	ug/L	60
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		2-Butanone	0	ug/L	60
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		Tetrahydrofuran	0	ug/L	
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		2-chloroethoxy ethene	0	ug/L	
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$624		TOTAL AMOUNT	393	ug/L	
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		1,4-Dichlorobenzene-D4	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		pyridine	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		n-nitrosodimethylamine	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		2-Fluorophenol	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		aniline	AW	ug/L	6.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		Phenol-d6	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		Phenol	AW	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	Bis(2-Chloroethyl)ether	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	2-Chlorophenol	AW	ug/L	6.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	n-decane	AW	ug/L	6.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	Bis(2-chloroisopropyl)ether	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	o-cresol	AW	ug/L	6.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	acetophenone	AW	ug/L	6.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	n-nitrosodi-n-propylamine	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	Hexachloroethane	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	Naphthalene-D8	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	Nitrobenzene-d5	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	p-cresol	AW	ug/L	6.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	Nitrobenzene	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	Isophorone	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	Decafluorobiphenyl	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	2-Nitrophenol	AW	ug/L	6.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	2,4-Dimethylphenol	AW	ug/L	6.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	bis(2-Chloroethoxy)methane	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	2,4-Dichlorophenol	AW	ug/L	6.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	1,2,4-Trichlorobenzene	AW	ug/L	6.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	Naphthalene	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	1-Fluoronaphthalene	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	alpha terpineol	AW	ug/L	6.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	Hexachlorobutadiene	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	4-Chloro-3-methylphenol	AW	ug/L	6.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	Acenaphthene-d10	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	Hexachlorocyclopentadiene	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	2,3 dichloroaniline	AW	ug/L	6.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	2,4,6-Trichlorophenol	AW	ug/L	6.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	2-Chloronaphthalene	AW	ug/L	6.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	Dimethyl phthalate	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	Acenaphthylene	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	2,6-Dinitrotoluene	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	Acenaphthene	AW	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		2,4-Dinitrophenol	AW	ug/L	6.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		4-Nitrophenol	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		2,4-Dinitrotoluene	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		Diethyl phthalate	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		4-Chlorophenyl phenyl ether	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		Fluorene	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		Phenanthrene-D10	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		4,6-Dinitro-o-cresol	AW	ug/L	7.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		n-nitrosodiphenylamine	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		1,2-Diphenylhydrazine	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		2,4,6-Tribromophenol	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		4-Bromophenyl phenyl ether	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		Hexachlorobenzene	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		Pentachlorophenol	AW	ug/L	6.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		n-octadecane	AW	ug/L	6.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		Phenanthrene	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		Anthracene	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		carbazole	AW	ug/L	6.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		Di-n-butyl phthalate	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		Fluoranthene	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		Chrysene-d12	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		Benzidine	AW	ug/L	6.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		Pyrene	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		Butyl benzyl phthalate	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		3,3-Dichlorobenzidine	AW	ug/L	6.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		Benzo(a)anthracene	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		Chrysene	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		bis(2-ethylhexyl)phthalate	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		Di-n-octyl phthalate	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		Perylene-D12	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		Benzo(b)fluoranthene	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		Benzo(k)fluoranthene	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625		Benzo(a)pyrene	AW	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	Indeno(1,2,3-cd)pyrene	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	Dibenzo(a,h)anthracene	AW	ug/L	3.0
AC07040	LM15	Little Miami Watershed	15	9/14/2012	11:20	\$625	Benzo(ghi)perylene	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	MF_CF	Fecal Coliform, Membrane Filter	150	CFU/100mL	
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	E-COLI	E.coli (Colilert)	122	MPN	
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	TDS	Total Dissolved Solids	390	mg/L	
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	SO4	Sulfate	37.0	mg/L	12.5
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	CL	Chloride	70.6	mg/L	1.00
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	TSS	Tot. Suspended Solids	20	mg/L	2
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	SSC	Suspended Sediment Concentration	34.2	mg/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	HARD	Hardness as CaCO3	250	mg/l	
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	COD	COD	4	mg/L	
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	535	uS/cm	
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	TEMP_FLD	Temperature (Field) Celsius	23.31	Deg C	
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	PH_FLD	pH (Field)	7.58	S.U.	
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	DO_FLD	Dissolved Oxygen (field) mg/L	8.01	mg/l	
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	553	uS/cm	
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	NH3	Ammonia as N	0	mg/L	0.5
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	NO3NO2	Nitrate + Nitrite	1.22	mg/L	0.5
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	TKN	Total Kjeldahl Nitrogen	0.5977	mg/L	0.5
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	NO2	Nitrite as N	0.012	mg/l	0.005
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	NO3	Nitrate as N (calculated)	1.2080	mg/l	
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	CHLOROPHYLL	Chlorophyll	5.34	mg/m3	1.00
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	Aldrin	AA	ug/L	0.02
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	Chlordane	AA	ug/L	0.10
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	4,4-DDT	AA	ug/L	0.03

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	Dieldrin	AA	ug/L	0.02
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	Endrin	AA	ug/L	0.02
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	Heptachlor	AA	ug/L	0.02
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	Toxaphene	AA	ug/L	1.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	PCB 1016	AA	ug/L	0.5
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	PCB 1221	AA	ug/L	0.5
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	PCB 1232	AA	ug/L	0.5
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	PCB 1242	AA	ug/L	0.5
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	PCB 1248	AA	ug/L	0.5
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	PCB 1254	AA	ug/L	0.5
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	PCB 1260	AA	ug/L	0.5
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	Surr: Decachlorobiphenyl	0.996	%	
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$PEST	Surr: Tetrachloro-m-xylene	1.17	%	
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624	Chloromethane	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624	Vinyl Chloride	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624	Bromomethane	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624	Chloroethane	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624	Acrolein	0	ug/L	100.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624	Acrylonitrile	0	ug/L	100.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624	Methylene Chloride	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624	Chloroform	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		1,2-Dichloroethane-d4	50.0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		Benzene	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		Trichloroethene	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		Bromodichloromethane	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		Dibromochloromethane	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		Bromoform	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		Tetrachloroethene	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		Toluene	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		Toluene-d8	50.6	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		Chlorobenzene	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		Ethylbenzene	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		Bromofluorobenzene	79.1	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		2-Propanone	0	ug/L	60
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		2-Butanone	0	ug/L	60
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		Tetrahydrofuran	1	ug/L	
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		2-chloroethoxy ethene	0	ug/L	
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$624		TOTAL AMOUNT	392	ug/L	
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625		1,4-Dichlorobenzene-D4	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625		pyridine	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625		n-nitrosodimethylamine	AW	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	2-Fluorophenol	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	aniline	AW	ug/L	6.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Phenol-d6	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Phenol	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Bis(2-Chloroethyl)ether	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	2-Chlorophenol	AW	ug/L	6.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	n-decane	AW	ug/L	6.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Bis(2-chloroisopropyl)ether	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	o-cresol	AW	ug/L	6.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	acetophenone	AW	ug/L	6.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	n-nitrosodi-n-propylamine	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Hexachloroethane	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Naphthalene-D8	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Nitrobenzene-d5	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	p-cresol	AW	ug/L	6.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Nitrobenzene	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Isophorone	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Decafluorobiphenyl	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	2-Nitrophenol	AW	ug/L	6.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	2,4-Dimethylphenol	AW	ug/L	6.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	bis(2-Chloroethoxy)methane	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	2,4-Dichlorophenol	AW	ug/L	6.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	1,2,4-Trichlorobenzene	AW	ug/L	6.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Naphthalene	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	1-Fluoronaphthalene	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	alpha terpineol	AW	ug/L	6.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Hexachlorobutadiene	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	4-Chloro-3-methylphenol	AW	ug/L	6.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Acenaphthene-d10	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Hexachlorocyclopentadiene	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	2,3 dichloroaniline	AW	ug/L	6.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	2,4,6-Trichlorophenol	AW	ug/L	6.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	2-Chloronaphthalene	AW	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Dimethyl phthalate	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Acenaphthylene	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	2,6-Dinitrotoluene	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Acenaphthene	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	2,4-Dinitrophenol	AW	ug/L	6.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	4-Nitrophenol	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	2,4-Dinitrotoluene	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Diethyl phthalate	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	4-Chlorophenyl phenyl ether	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Fluorene	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Phenanthrene-D10	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	4,6-Dinitro-o-cresol	AW	ug/L	7.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	n-nitrosodiphenylamine	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	1,2-Diphenylhydrazine	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	2,4,6-Tribromophenol	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	4-Bromophenyl phenyl ether	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Hexachlorobenzene	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Pentachlorophenol	AW	ug/L	6.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	n-octadecane	AW	ug/L	6.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Phenanthrene	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Anthracene	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	carbazole	AW	ug/L	6.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Di-n-butyl phthalate	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Fluoranthene	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Chrysene-d12	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Benzidine	AW	ug/L	6.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Pyrene	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Butyl benzyl phthalate	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	3,3-Dichlorobenzidine	AW	ug/L	6.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Benzo(a)anthracene	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Chrysene	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	bis(2-ethylhexyl)phthalate	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625	Di-n-octyl phthalate	AW	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625		Perylene-D12	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625		Benzo(b)fluoranthene	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625		Benzo(k)fluoranthene	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625		Benzo(a)pyrene	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625		Indeno(1,2,3-cd)pyrene	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625		Dibenzo(a,h)anthracene	AW	ug/L	3.0
AC07041	LM16	Little Miami Watershed	16 (3261-02)	9/14/2012	11:40	\$625		Benzo(ghi)perylene	AW	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		MF_CF	Fecal Coliform, Membrane Filter	93	CFU/100mL	
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		E-COLI	E.coli (Colilert)	79	MPN	
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		TDS	Total Dissolved Solids	570	mg/L	
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		SO4	Sulfate	49.2	mg/L	25.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		CL	Chloride	134	mg/L	4.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		TSS	Tot. Suspended Solids	6	mg/L	2
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		SSC	Suspended Sediment Concentration	17.2	mg/L	5.4
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		HARD	Hardness as CaCO3	294	mg/l	
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		COD	COD	38	mg/L	
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	829	uS/cm	
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		TEMP_FLD	Temperature (Field) Celsius	20.67	Deg C	
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		PH_FLD	pH (Field)	8.63	S.U.	
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		DO_FLD	Dissolved Oxygen (field) mg/L	9.68	mg/l	
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		CONDUCTIVITY	Specific Conductivity (uS/cm)	903	uS/cm	
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		\$ICP	Aluminum	0.00	mg/L	0.348
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		\$ICP	Antimony	0.00	mg/L	0.006
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		\$ICP	Arsenic	0.00	mg/L	0.012
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		\$ICP	Barium	0.0699	mg/L	0.003
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		\$ICP	Beryllium	0.00	mg/L	0.009
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		\$ICP	Cadmium	0.00	mg/L	0.012
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		\$ICP	Calcium	79.6	mg/L	0.066
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		\$ICP	Chromium	0.00	mg/L	0.006
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		\$ICP	Cobalt	0.00	mg/L	0.006
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		\$ICP	Copper	0.00	mg/L	0.006
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10		\$ICP	Iron	0.477	mg/L	0.018

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$ICP	Lead	0.00	mg/L	0.006
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$ICP	Magnesium	27.7	mg/L	0.021
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$ICP	Manganese	0.0327	mg/L	0.009
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$ICP	Nickel	0.00	mg/L	0.003
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$ICP	Selenium	0.0105	mg/L	0.009
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$ICP	Silver	0.00	mg/L	0.003
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$ICP	Strontium	0.330	mg/L	0.009
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$ICP	Thallium	0.00	mg/L	0.012
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$ICP	Tin	0.00	mg/L	0.006
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$ICP	Zinc	0.0119	mg/L	0.006
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	PB_FU	Lead by Furnace	0.53	ug/L	1.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	AS_FU	Arsenic by Furnace	1.53	ug/L	1.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	CU_FU	Copper by Furnace	2.8	ug/L	1
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	NH3	Ammonia as N	0	mg/L	0.5
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	NO3NO2	Nitrate + Nitrite	2.45	mg/L	0.5
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	TKN	Total Kjeldahl Nitrogen	0.5582	mg/L	0.5
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	NO2	Nitrite as N	0.0151	mg/l	0.005
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	NO3	Nitrate as N (calculated)	2.4349	mg/l	
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	CHLOROPHYLL	Chlorophyll	3.56	mg/m3	1.00
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	Aldrin	AA	ug/L	0.02
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	Chlordane	AA	ug/L	0.10
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	Dieldrin	AA	ug/L	0.02
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	Endosulfan I	AA	ug/L	0.05

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	Endrin	AA	ug/L	0.02
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	Heptachlor	AA	ug/L	0.02
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	Toxaphene	AA	ug/L	1.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	PCB 1016	AA	ug/L	0.5
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	PCB 1221	AA	ug/L	0.5
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	PCB 1232	AA	ug/L	0.5
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	PCB 1242	AA	ug/L	0.5
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	PCB 1248	AA	ug/L	0.5
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	PCB 1254	AA	ug/L	0.5
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	PCB 1260	AA	ug/L	0.5
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	Surr: Decachlorobiphenyl	1.24	%	
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$PEST	Surr: Tetrachloro-m-xylene	1.12	%	
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624	Chloromethane	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624	Vinyl Chloride	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624	Bromomethane	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624	Chloroethane	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624	Acrolein	0	ug/L	100.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624	Acrylonitrile	0	ug/L	100.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624	Methylene Chloride	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624	Chloroform	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624	1,2-Dichloroethane-d4	49.1	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624	1,1,1-Trichloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		Benzene	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		Trichloroethene	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		Bromodichloromethane	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		Dibromochloromethane	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		Bromoform	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		Tetrachloroethene	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		Toluene	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		Toluene-d8	49.2	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		Chlorobenzene	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		Ethylbenzene	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		Bromofluorobenzene	81.6	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		2-Propanone	0	ug/L	60
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		2-Butanone	0	ug/L	60
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		Tetrahydrofuran	1	ug/L	
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		2-chloroethoxy ethene	0	ug/L	
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$624		TOTAL AMOUNT	374	ug/L	
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		pyridine	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		n-nitrosodimethylamine	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		2-Fluorophenol	9.80	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		aniline	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Phenol-d6	6.91	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Phenol	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		2-Chlorophenol	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		n-decane	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		o-cresol	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		acetophenone	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Hexachloroethane	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Naphthalene-D8	50	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Nitrobenzene-d5	20.1	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		p-cresol	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Nitrobenzene	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Isophorone	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Decafluorobiphenyl	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		2-Nitrophenol	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		2,4-Dimethylphenol	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		2,4-Dichlorophenol	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Naphthalene	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		1-Fluoronaphthalene	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		alpha terpineol	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Hexachlorobutadiene	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		4-Chloro-3-methylphenol	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Acenaphthene-d10	50	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Hexachlorocyclopentadiene	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		2,3 dichloroaniline	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		2,4,6-Trichlorophenol	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		2-Chloronaphthalene	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Dimethyl phthalate	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Acenaphthylene	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		2,6-Dinitrotoluene	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Acenaphthene	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		2,4-Dinitrophenol	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		4-Nitrophenol	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		2,4-Dinitrotoluene	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Diethyl phthalate	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Fluorene	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Phenanthrene-D10	50	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		n-nitrosodiphenylamine	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		1,2-Diphenylhydrazine	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		2,4,6-Tribromophenol	28.1	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Hexachlorobenzene	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Pentachlorophenol	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		n-octadecane	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Phenanthrene	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Anthracene	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		carbazole	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Di-n-butyl phthalate	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Fluoranthene	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Chrysene-d12	50	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Benzidine	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Pyrene	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Butyl benzyl phthalate	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		3,3-Dichlorobenzidine	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Benzo(a)anthracene	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Chrysene	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Di-n-octyl phthalate	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Perylene-D12	50	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Benzo(b)fluoranthene	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625		Benzo(k)fluoranthene	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625	Benzo(a)pyrene	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625	Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625	Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC07114	LM01	Little Miami Watershed	1	9/17/2012	11:10	\$625	Benzo(ghi)perylene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	MF_CF	Fecal Coliform, Membrane Filter	71	CFU/100mL	
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	E-COLI	E.coli (Colilert)	75	MPN	
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	TDS	Total Dissolved Solids	440	mg/L	
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	SO4	Sulfate	46.5	mg/L	12.5
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	CL	Chloride	100	mg/L	1.00
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	TSS	Tot. Suspended Solids	14	mg/L	2
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	SSC	Suspended Sediment Concentration	9.3	mg/L	5.1
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	HARD	Hardness as CaCO3	288	mg/l	
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	COD	COD	50	mg/L	
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	733	uS/cm	
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	TEMP_FLD	Temperature (Field) Celsius	20.95	Deg C	
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	PH_FLD	pH (Field)	8.70	S.U.	
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	DO_FLD	Dissolved Oxygen (field) mg/L	10.40	mg/l	
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	794	uS/cm	
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$ICP	Antimony	0.00	mg/L	0.006
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$ICP	Barium	0.0695	mg/L	0.003
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$ICP	Calcium	74.3	mg/L	0.066
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$ICP	Chromium	0.00	mg/L	0.006
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$ICP	Copper	0.00615	mg/L	0.006
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$ICP	Iron	0.300	mg/L	0.018
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$ICP	Lead	0.00	mg/L	0.006
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$ICP	Magnesium	26.4	mg/L	0.021
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$ICP	Manganese	0.0235	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$ICP	Nickel	0.00	mg/L	0.003
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$ICP	Selenium	0.00	mg/L	0.009
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$ICP	Silver	0.00	mg/L	0.003
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$ICP	Strontium	0.314	mg/L	0.009
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$ICP	Thallium	0.00	mg/L	0.012
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$ICP	Tin	0.00	mg/L	0.006
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$ICP	Zinc	0.00694	mg/L	0.006
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	PB_FU	Lead by Furnace	0.34	ug/L	1.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	AS_FU	Arsenic by Furnace	1.65	ug/L	1.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	CU_FU	Copper by Furnace	2.4	ug/L	1
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	NO3NO2	Nitrate + Nitrite	1.33	mg/L	0.5
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	NO2	Nitrite as N	0.7176	mg/l	0.005
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	NO3	Nitrate as N (calculated)	0.6124	mg/l	
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	Aldrin	AA	ug/L	0.02
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	Chlordane	AA	ug/L	0.10
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	Endrin	AA	ug/L	0.02



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	Surr: Decachlorobiphenyl	1.13	%	
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$PEST	Surr: Tetrachloro-m-xylene	0.966	%	
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Chloromethane	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Bromomethane	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Chloroethane	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Acrolein	0	ug/L	100.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Acrylonitrile	0	ug/L	100.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Methylene Chloride	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Chloroform	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	1,2-Dichloroethane-d4	49.9	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Benzene	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Trichloroethene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Bromodichloromethane	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Dibromochloromethane	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Bromoform	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Tetrachloroethene	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Toluene	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Toluene-d8	50.2	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Chlorobenzene	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Ethylbenzene	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Bromofluorobenzene	81.4	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	2-Propanone	0	ug/L	60
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	2-Butanone	0	ug/L	60
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	Tetrahydrofuran	0	ug/L	
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	2-chloroethoxy ethene	0	ug/L	
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$624	TOTAL AMOUNT	378	ug/L	
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	pyridine	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	n-nitrosodimethylamine	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	2-Fluorophenol	16.0	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	aniline	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Phenol-d6	11.3	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Phenol	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	2-Chlorophenol	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	n-decane	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	o-cresol	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	acetophenone	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Hexachloroethane	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Naphthalene-D8	50	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Nitrobenzene-d5	30.6	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	p-cresol	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Nitrobenzene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Isophorone	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Decafluorobiphenyl	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	2-Nitrophenol	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	2,4-Dimethylphenol	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	2,4-Dichlorophenol	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Naphthalene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	1-Fluoronaphthalene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	alpha terpineol	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Hexachlorobutadiene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	4-Chloro-3-methylphenol	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Acenaphthene-d10	50	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Hexachlorocyclopentadiene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	2,3 dichloroaniline	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	2,4,6-Trichlorophenol	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	2-Chloronaphthalene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Dimethyl phthalate	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Acenaphthylene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	2,6-Dinitrotoluene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Acenaphthene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	2,4-Dinitrophenol	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	4-Nitrophenol	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	2,4-Dinitrotoluene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Diethyl phthalate	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Fluorene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Phenanthrene-D10	50	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	n-nitrosodiphenylamine	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	1,2-Diphenylhydrazine	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	2,4,6-Tribromophenol	32.5	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Hexachlorobenzene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Pentachlorophenol	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	n-octadecane	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Phenanthrene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Anthracene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	carbazole	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Di-n-butyl phthalate	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Fluoranthene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Chrysene-d12	50	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Benzidine	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Pyrene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Butyl benzyl phthalate	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	3,3-Dichlorobenzidine	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Benzo(a)anthracene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Chrysene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Di-n-octyl phthalate	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Perylene-D12	50	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Benzo(b)fluoranthene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Benzo(k)fluoranthene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Benzo(a)pyrene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Dibenzo(a,h)anthracene	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07115	LM02	Little Miami Watershed	2 (3261-09)	9/17/2012	11:30	\$625	Benzo(ghi)perylene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	MF_CF	Fecal Coliform, Membrane Filter	143	CFU/100mL	
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	E-COLI	E.coli (Colilert)	172	MPN	
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	TDS	Total Dissolved Solids	440	mg/L	
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	SO4	Sulfate	78.8	mg/L	12.5
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	CL	Chloride	101	mg/L	1.00
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	TSS	Tot. Suspended Solids	12	mg/L	2
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	SSC	Suspended Sediment Concentration	10.8	mg/L	5.3
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	HARD	Hardness as CaCO3	256	mg/l	
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	COD	COD	49	mg/L	
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	776	uS/cm	
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	TEMP_FLD	Temperature (Field) Celsius	18.50	Deg C	
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	PH_FLD	pH (Field)	8.27	S.U.	
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	DO_FLD	Dissolved Oxygen (field) mg/L	8.05	mg/l	
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	886	uS/cm	
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$ICP	Aluminum	0.00	mg/L	0.348
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$ICP	Antimony	0.00	mg/L	0.006
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$ICP	Arsenic	0.00	mg/L	0.012
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$ICP	Barium	0.0412	mg/L	0.003
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$ICP	Calcium	74.8	mg/L	0.066
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$ICP	Chromium	0.00	mg/L	0.006
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$ICP	Copper	0.00792	mg/L	0.006
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$ICP	Iron	0.379	mg/L	0.018
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$ICP	Lead	0.00	mg/L	0.006
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$ICP	Magnesium	17.2	mg/L	0.021
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$ICP	Manganese	0.127	mg/L	0.009
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$ICP	Nickel	0.00	mg/L	0.003
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$ICP	Selenium	0.0230	mg/L	0.009
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$ICP	Silver	0.00	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$ICP	Strontium	0.272	mg/L	0.009
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$ICP	Thallium	0.00	mg/L	0.012
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$ICP	Tin	0.00	mg/L	0.006
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$ICP	Zinc	0.0175	mg/L	0.006
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	PB_FU	Lead by Furnace	0.45	ug/L	1.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	AS_FU	Arsenic by Furnace	1.95	ug/L	1.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	CU_FU	Copper by Furnace	5.8	ug/L	1
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	NH3	Ammonia as N	0	mg/L	0.5
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	NO3NO2	Nitrate + Nitrite	13.6	mg/L	0.5
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	TKP	Total Kjeldahl Phosphorus	1.605	mg/L	0.5
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	NO2	Nitrite as N	0.0149	mg/l	0.005
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	NO3	Nitrate as N (calculated)	13.5851	mg/l	
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST	Aldrin	AA	ug/L	0.02
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST	Chlordane	AA	ug/L	0.10
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST	Dieldrin	AA	ug/L	0.02
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST	Endrin	AA	ug/L	0.02
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST	Heptachlor	AA	ug/L	0.02
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST	Heptachlor epoxide	AA	ug/L	0.05

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST		Toxaphene	AA	ug/L	1.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST		PCB 1016	AA	ug/L	0.5
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST		PCB 1221	AA	ug/L	0.5
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST		PCB 1232	AA	ug/L	0.5
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST		PCB 1242	AA	ug/L	0.5
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST		PCB 1248	AA	ug/L	0.5
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST		PCB 1254	AA	ug/L	0.5
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST		PCB 1260	AA	ug/L	0.5
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST		Surr: Decachlorobiphenyl	1.20	%	
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$PEST		Surr: Tetrachloro-m-xylene	1.23	%	
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Bromochloromethane	50.0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Chloromethane	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Vinyl Chloride	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Bromomethane	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Chloroethane	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Acrolein	0	ug/L	100.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Acrylonitrile	0	ug/L	100.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Methylene Chloride	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Chloroform	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		1,2-Dichloroethane-d4	50.0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Benzene	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Trichloroethene	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Bromodichloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Dibromochloromethane	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Bromoform	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Tetrachloroethene	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Toluene	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Toluene-d8	50.2	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Chlorobenzene	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Ethylbenzene	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Bromofluorobenzene	83.4	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		2-Propanone	0	ug/L	60
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		2-Butanone	0	ug/L	60
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		Tetrahydrofuran	0	ug/L	
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		2-chloroethoxy ethene	0	ug/L	
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$624		TOTAL AMOUNT	383	ug/L	
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		pyridine	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		n-nitrosodimethylamine	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		2-Fluorophenol	15.0	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		aniline	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Phenol-d6	10.5	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Phenol	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		2-Chlorophenol	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		n-decane	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		o-cresol	AA	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		acetophenone	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Hexachloroethane	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Naphthalene-D8	50	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Nitrobenzene-d5	30.5	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		p-cresol	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Nitrobenzene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Isophorone	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Decafluorobiphenyl	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		2-Nitrophenol	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		2,4-Dimethylphenol	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		2,4-Dichlorophenol	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Naphthalene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		1-Fluoronaphthalene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		alpha terpineol	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Hexachlorobutadiene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		4-Chloro-3-methylphenol	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Acenaphthene-d10	50	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Hexachlorocyclopentadiene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		2,3 dichloroaniline	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		2,4,6-Trichlorophenol	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		2-Chloronaphthalene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Dimethyl phthalate	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Acenaphthylene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		2,6-Dinitrotoluene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Acenaphthene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		2,4-Dinitrophenol	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		4-Nitrophenol	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		2,4-Dinitrotoluene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Diethyl phthalate	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		4-Chlorophenyl phenyl ether	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Fluorene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Phenanthrene-D10	50	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		n-nitrosodiphenylamine	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		1,2-Diphenylhydrazine	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		2,4,6-Tribromophenol	32.7	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Hexachlorobenzene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Pentachlorophenol	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		n-octadecane	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Phenanthrene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Anthracene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		carbazole	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Di-n-butyl phthalate	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Fluoranthene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Chrysene-d12	50	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Benzidine	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Pyrene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Butyl benzyl phthalate	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		3,3-Dichlorobenzidine	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Benzo(a)anthracene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Chrysene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Di-n-octyl phthalate	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Perylene-D12	50	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Benzo(b)fluoranthene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Benzo(k)fluoranthene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Benzo(a)pyrene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC07116	LM38	Little Miami Watershed	38	9/17/2012	11:45	\$625		Benzo(ghi)perylene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00		MF_CF	Fecal Coliform, Membrane Filter	150	CFU/100mL	
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00		E-COLI	E.coli (Colilert)	166	MPN	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	TDS	Total Dissolved Solids	440	mg/L	
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	SO4	Sulfate	45.0	mg/L	12.5
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	CL	Chloride	95.5	mg/L	1.00
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	TSS	Tot. Suspended Solids	18	mg/L	2
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	SSC	Suspended Sediment Concentration	13.5	mg/L	4.9
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	HARD	Hardness as CaCO3	280	mg/l	
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	COD	COD	47	mg/L	
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	719	uS/cm	
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	TEMP_FLD	Temperature (Field) Celsius	20.85	Deg C	
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	PH_FLD	pH (Field)	8.61	S.U.	
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	DO_FLD	Dissolved Oxygen (field) mg/L	10.54	mg/l	
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	781	uS/cm	
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$ICP	Antimony	0.00	mg/L	0.006
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$ICP	Barium	0.0702	mg/L	0.003
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$ICP	Calcium	74.3	mg/L	0.066
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$ICP	Chromium	0.00	mg/L	0.006
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$ICP	Copper	0.00	mg/L	0.006
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$ICP	Iron	0.496	mg/L	0.018
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$ICP	Lead	0.00	mg/L	0.006
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$ICP	Magnesium	25.9	mg/L	0.021
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$ICP	Manganese	0.0361	mg/L	0.009
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$ICP	Nickel	0.00	mg/L	0.003
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$ICP	Selenium	0.0135	mg/L	0.009
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$ICP	Silver	0.00	mg/L	0.003
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$ICP	Strontium	0.309	mg/L	0.009
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$ICP	Thallium	0.00	mg/L	0.012
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$ICP	Tin	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$ICP	Zinc	0.00697	mg/L	0.006
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	PB_FU	Lead by Furnace	0.54	ug/L	1.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	AS_FU	Arsenic by Furnace	1.62	ug/L	1.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	CU_FU	Copper by Furnace	2.3	ug/L	1
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	NH3	Ammonia as N	0	mg/L	0.5
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	NO3NO2	Nitrate + Nitrite	1.52	mg/L	0.5
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	NO2	Nitrite as N	0.0323	mg/l	0.005
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	NO3	Nitrate as N (calculated)	1.4877	mg/l	
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	Aldrin	AA	ug/L	0.02
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	Chlordane	AA	ug/L	0.10
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	Endrin	AA	ug/L	0.02
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	Toxaphene	AA	ug/L	1.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	PCB 1221	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	Surr: Decachlorobiphenyl	1.17	%	
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$PEST	Surr: Tetrachloro-m-xylene	1.02	%	
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	Chloromethane	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	Bromomethane	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	Chloroethane	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	Acrolein	0	ug/L	100.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	Acrylonitrile	0	ug/L	100.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	Methylene Chloride	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	Chloroform	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	1,2-Dichloroethane-d4	49.8	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	Benzene	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	Trichloroethene	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	Bromodichloromethane	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624	1,1,2-Trichloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624		Bromoform	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624		Toluene	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624		Toluene-d8	50.4	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624		Chlorobenzene	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624		Ethylbenzene	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624		Bromofluorobenzene	85.9	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624		2-Propanone	0	ug/L	60
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624		2-Butanone	0	ug/L	60
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624		Tetrahydrofuran	0	ug/L	
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624		2-chloroethoxy ethene	0	ug/L	
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$624		TOTAL AMOUNT	374	ug/L	
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		pyridine	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		n-nitrosodimethylamine	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		2-Fluorophenol	11.3	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		aniline	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Phenol-d6	7.59	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Phenol	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		2-Chlorophenol	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		n-decane	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		o-cresol	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		acetophenone	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Hexachloroethane	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	Naphthalene-D8	50	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	Nitrobenzene-d5	22.6	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	p-cresol	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	Nitrobenzene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	Isophorone	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	Decafluorobiphenyl	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	2-Nitrophenol	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	2,4-Dimethylphenol	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	2,4-Dichlorophenol	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	Naphthalene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	1-Fluoronaphthalene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	alpha terpineol	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	Hexachlorobutadiene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	4-Chloro-3-methylphenol	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	Acenaphthene-d10	50	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	Hexachlorocyclopentadiene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	2,3 dichloroaniline	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	2,4,6-Trichlorophenol	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	2-Chloronaphthalene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	Dimethyl phthalate	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	Acenaphthylene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	2,6-Dinitrotoluene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	Acenaphthene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	2,4-Dinitrophenol	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	4-Nitrophenol	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	2,4-Dinitrotoluene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	Diethyl phthalate	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	Fluorene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	Phenanthrene-D10	50	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625	4,6-Dinitro-o-cresol	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		n-nitrosodiphenylamine	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		1,2-Diphenylhydrazine	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		2,4,6-Tribromophenol	26.8	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Hexachlorobenzene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Pentachlorophenol	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		n-octadecane	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Phenanthrene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Anthracene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		carbazole	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Di-n-butyl phthalate	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Fluoranthene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Chrysene-d12	50	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Benzidine	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Pyrene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Butyl benzyl phthalate	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		3,3-Dichlorobenzidine	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Benzo(a)anthracene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Chrysene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Di-n-octyl phthalate	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Perylene-D12	50	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Benzo(b)fluoranthene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Benzo(k)fluoranthene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Benzo(a)pyrene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC07117	LM03	Little Miami Watershed	3	9/17/2012	12:00	\$625		Benzo(ghi)perylene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20		MF_CF	Fecal Coliform, Membrane Filter	71	CFU/100mL	
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20		E-COLI	E.coli (Colilert)	108	MPN	
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20		TDS	Total Dissolved Solids	600	mg/L	
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20		BOD	Biochemical Oxygen Demand	3	mg/L	2
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20		SO4	Sulfate	70.5	mg/L	12.5



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	CL	Chloride	246	mg/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	TSS	Tot. Suspended Solids	8	mg/L	2
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	SSC	Suspended Sediment Concentration	15.0	mg/L	5.2
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	HARD	Hardness as CaCO3	284	mg/l	
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	COD	COD	48	mg/L	
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1181	uS/cm	
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	TEMP_FLD	Temperature (Field) Celsius	22.70	Deg C	
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	PH_FLD	pH (Field)	7.64	S.U.	
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	DO_FLD	Dissolved Oxygen (field) mg/L	8.60	mg/l	
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	1235	uS/cm	
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$ICP	Aluminum	0.00	mg/L	0.348
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$ICP	Antimony	0.00	mg/L	0.006
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$ICP	Arsenic	0.00	mg/L	0.012
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$ICP	Barium	0.0494	mg/L	0.003
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$ICP	Calcium	82.0	mg/L	0.066
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$ICP	Chromium	0.00	mg/L	0.006
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$ICP	Copper	0.0128	mg/L	0.006
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$ICP	Iron	0.680	mg/L	0.018
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$ICP	Lead	0.00	mg/L	0.006
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$ICP	Magnesium	26.3	mg/L	0.021
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$ICP	Manganese	0.0493	mg/L	0.009
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$ICP	Nickel	0.00	mg/L	0.003
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$ICP	Selenium	0.0127	mg/L	0.009
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$ICP	Silver	0.00	mg/L	0.003
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$ICP	Strontium	0.331	mg/L	0.009
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$ICP	Thallium	0.00	mg/L	0.012
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$ICP	Tin	0.00	mg/L	0.006
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$ICP	Zinc	0.0237	mg/L	0.006
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	PB_FU	Lead by Furnace	0.58	ug/L	1.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	AS_FU	Arsenic by Furnace	1.22	ug/L	1.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	CU_FU	Copper by Furnace	9.7	ug/L	1
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	NH3	Ammonia as N	0	mg/L	0.5
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	NO3NO2	Nitrate + Nitrite	10.4	mg/L	0.5
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	TKP	Total Kjeldahl Phosphorus	1.201	mg/L	0.5
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	NO2	Nitrite as N	0.0352	mg/l	0.005
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	NO3	Nitrate as N (calculated)	10.3648	mg/l	
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	Aldrin	AA	ug/L	0.02
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	Chlordane	AA	ug/L	0.10
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	Dieldrin	AA	ug/L	0.02
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	Endrin	AA	ug/L	0.02
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	Heptachlor	AA	ug/L	0.02
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	Toxaphene	AA	ug/L	1.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	PCB 1016	AA	ug/L	0.5
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	PCB 1221	AA	ug/L	0.5
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	PCB 1232	AA	ug/L	0.5
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	PCB 1242	AA	ug/L	0.5
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	PCB 1248	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	PCB 1254	AA	ug/L	0.5
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	PCB 1260	AA	ug/L	0.5
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	Surr: Decachlorobiphenyl	1.26	%	
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$PEST	Surr: Tetrachloro-m-xylene	1.08	%	
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	Chloromethane	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	Vinyl Chloride	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	Bromomethane	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	Chloroethane	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	Acrolein	0	ug/L	100.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	Acrylonitrile	0	ug/L	100.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	Methylene Chloride	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	Chloroform	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	1,2-Dichloroethane-d4	51.1	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	Benzene	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	Trichloroethene	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	Bromodichloromethane	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	Dibromochloromethane	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	Bromoform	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624		Tetrachloroethene	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624		Toluene	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624		Toluene-d8	49.9	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624		Chlorobenzene	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624		Ethylbenzene	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624		Bromofluorobenzene	83.8	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624		2-Propanone	0	ug/L	60
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624		2-Butanone	0	ug/L	60
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624		Tetrahydrofuran	1	ug/L	
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624		2-chloroethoxy ethene	4	ug/L	
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$624		TOTAL AMOUNT	385	ug/L	
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625		1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625		pyridine	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625		n-nitrosodimethylamine	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625		2-Fluorophenol	11.6	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625		aniline	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625		Phenol-d6	8.07	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625		Phenol	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625		Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625		2-Chlorophenol	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625		n-decane	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625		Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625		o-cresol	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625		acetophenone	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625		n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625		Hexachloroethane	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625		Naphthalene-D8	50	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625		Nitrobenzene-d5	23.3	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625		p-cresol	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Nitrobenzene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Isophorone	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Decafluorobiphenyl	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	2-Nitrophenol	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	2,4-Dimethylphenol	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	2,4-Dichlorophenol	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Naphthalene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	1-Fluoronaphthalene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	alpha terpineol	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Hexachlorobutadiene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	4-Chloro-3-methylphenol	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Acenaphthene-d10	50	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Hexachlorocyclopentadiene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	2,3 dichloroaniline	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	2,4,6-Trichlorophenol	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	2-Chloronaphthalene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Dimethyl phthalate	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Acenaphthylene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	2,6-Dinitrotoluene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Acenaphthene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	2,4-Dinitrophenol	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	4-Nitrophenol	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	2,4-Dinitrotoluene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Diethyl phthalate	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Fluorene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Phenanthrene-D10	50	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	n-nitrosodiphenylamine	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	1,2-Diphenylhydrazine	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	2,4,6-Tribromophenol	27.5	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Hexachlorobenzene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Pentachlorophenol	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	n-octadecane	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Phenanthrene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Anthracene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	carbazole	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Di-n-butyl phthalate	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Fluoranthene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Chrysene-d12	50	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Benzidine	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Pyrene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Butyl benzyl phthalate	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	3,3-Dichlorobenzidine	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Benzo(a)anthracene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Chrysene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Di-n-octyl phthalate	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Perylene-D12	50	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Benzo(b)fluoranthene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Benzo(k)fluoranthene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Benzo(a)pyrene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC07118	LM04	Little Miami Watershed	4	9/17/2012	12:20	\$625	Benzo(ghi)perylene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	MF_CF	Fecal Coliform, Membrane Filter	100	CFU/100mL	
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	E-COLI	E.coli (Colilert)	78	MPN	
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	TDS	Total Dissolved Solids	460	mg/L	
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	SO4	Sulfate	47.0	mg/L	12.5
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	CL	Chloride	96.1	mg/L	1.00
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	TSS	Tot. Suspended Solids	12	mg/L	2
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	SSC	Suspended Sediment Concentration	14.1	mg/L	5.1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	HARD	Hardness as CaCO3	270	mg/l	
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	COD	COD	35	mg/L	
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	721	uS/cm	
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	TEMP_FLD	Temperature (Field) Celsius	20.87	Deg C	
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	PH_FLD	pH (Field)	8.63	S.U.	
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	DO_FLD	Dissolved Oxygen (field) mg/L	10.48	mg/l	
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	783	uS/cm	
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$ICP	Aluminum	0.00	mg/L	0.348
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$ICP	Antimony	0.00	mg/L	0.006
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$ICP	Arsenic	0.00	mg/L	0.012
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$ICP	Barium	0.0711	mg/L	0.003
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$ICP	Beryllium	0.00	mg/L	0.009
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$ICP	Cadmium	0.00	mg/L	0.012
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$ICP	Calcium	72.2	mg/L	0.066
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$ICP	Chromium	0.00	mg/L	0.006
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$ICP	Cobalt	0.00	mg/L	0.006
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$ICP	Copper	0.00	mg/L	0.006
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$ICP	Iron	0.496	mg/L	0.018
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$ICP	Lead	0.00	mg/L	0.006
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$ICP	Magnesium	25.1	mg/L	0.021
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$ICP	Manganese	0.0377	mg/L	0.009
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$ICP	Nickel	0.00305	mg/L	0.003
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$ICP	Selenium	0.0186	mg/L	0.009
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$ICP	Silver	0.00	mg/L	0.003
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$ICP	Strontium	0.308	mg/L	0.009
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$ICP	Thallium	AE	mg/L	0.012
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$ICP	Tin	0.00	mg/L	0.006
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$ICP	Vanadium	0.00	mg/L	0.018
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$ICP	Zinc	0.00854	mg/L	0.006
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	PB_FU	Lead by Furnace	0.55	ug/L	1.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	AS_FU	Arsenic by Furnace	1.77	ug/L	1.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	CU_FU	Copper by Furnace	2.7	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	NH3	Ammonia as N	0	mg/L	0.5
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	NO3NO2	Nitrate + Nitrite	1.68	mg/L	0.5
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	NO2	Nitrite as N	0.0261	mg/l	0.005
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	NO3	Nitrate as N (calculated)	1.6539	mg/l	
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	Aldrin	AA	ug/L	0.02
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	Chlordane	AA	ug/L	0.10
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	Dieldrin	AA	ug/L	0.02
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	Endrin	AA	ug/L	0.02
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	Heptachlor	AA	ug/L	0.02
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	Toxaphene	AA	ug/L	1.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	PCB 1016	AA	ug/L	0.5
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	PCB 1221	AA	ug/L	0.5
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	PCB 1232	AA	ug/L	0.5
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	PCB 1242	AA	ug/L	0.5
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	PCB 1248	AA	ug/L	0.5
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	PCB 1254	AA	ug/L	0.5
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	PCB 1260	AA	ug/L	0.5
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	Surr: Decachlorobiphenyl	1.09	%	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$PEST	Surr: Tetrachloro-m-xylene	0.972	%	
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Chloromethane	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Vinyl Chloride	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Bromomethane	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Chloroethane	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Acrolein	0	ug/L	100.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Acrylonitrile	0	ug/L	100.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Methylene Chloride	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Chloroform	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	1,2-Dichloroethane-d4	50.0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Benzene	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Trichloroethene	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Bromodichloromethane	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Dibromochloromethane	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Bromoform	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Tetrachloroethene	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Toluene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Toluene-d8	49.4	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Chlorobenzene	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Ethylbenzene	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Bromofluorobenzene	83.2	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	2-Propanone	0	ug/L	60
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	2-Butanone	0	ug/L	60
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	Tetrahydrofuran	0	ug/L	
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	2-chloroethoxy ethene	0	ug/L	
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$624	TOTAL AMOUNT	371	ug/L	
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	pyridine	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	n-nitrosodimethylamine	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	2-Fluorophenol	9.22	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	aniline	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Phenol-d6	6.44	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Phenol	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	2-Chlorophenol	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	n-decane	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	o-cresol	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	acetophenone	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Hexachloroethane	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Naphthalene-D8	50	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Nitrobenzene-d5	19.5	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	p-cresol	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Nitrobenzene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Isophorone	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Decafluorobiphenyl	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	2-Nitrophenol	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	2,4-Dimethylphenol	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	bis(2-Chloroethoxy)methane	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	2,4-Dichlorophenol	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Naphthalene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	1-Fluoronaphthalene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	alpha terpineol	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Hexachlorobutadiene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	4-Chloro-3-methylphenol	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Acenaphthene-d10	50	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Hexachlorocyclopentadiene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	2,3 dichloroaniline	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	2,4,6-Trichlorophenol	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	2-Chloronaphthalene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Dimethyl phthalate	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Acenaphthylene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	2,6-Dinitrotoluene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Acenaphthene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	2,4-Dinitrophenol	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	4-Nitrophenol	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	2,4-Dinitrotoluene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Diethyl phthalate	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Fluorene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Phenanthrene-D10	50	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	n-nitrosodiphenylamine	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	1,2-Diphenylhydrazine	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	2,4,6-Tribromophenol	25.3	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Hexachlorobenzene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Pentachlorophenol	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	n-octadecane	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Phenanthrene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Anthracene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	carbazole	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Di-n-butyl phthalate	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Fluoranthene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Chrysene-d12	50	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Benzidine	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Pyrene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Butyl benzyl phthalate	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	3,3-Dichlorobenzidine	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Benzo(a)anthracene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Chrysene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Di-n-octyl phthalate	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Perylene-D12	50	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Benzo(b)fluoranthene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Benzo(k)fluoranthene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Benzo(a)pyrene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC07119	LM05	Little Miami Watershed	5 (3261-08)	9/17/2012	12:35	\$625	Benzo(ghi)perylene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	MF_CF	Fecal Coliform, Membrane Filter	136	CFU/100mL	
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	E-COLI	E.coli (Colilert)	139	MPN	
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	TDS	Total Dissolved Solids	480	mg/L	
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	SO4	Sulfate	48.0	mg/L	12.5
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	CL	Chloride	97.3	mg/L	1.00
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	TSS	Tot. Suspended Solids	38	mg/L	2
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	SSC	Suspended Sediment Concentration	47.3	mg/L	5.4
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	HARD	Hardness as CaCO3	274	mg/l	
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	COD	COD	35	mg/L	
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	735	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	TEMP_FLD	Temperature (Field) Celsius	21.54	Deg C	
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	PH_FLD	pH (Field)	8.56	S.U.	
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	DO_FLD	Dissolved Oxygen (field) mg/L	7.98	mg/l	
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	7.88	uS/cm	
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$ICP	Aluminum	0.399	mg/L	0.348
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$ICP	Antimony	0.00	mg/L	0.006
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$ICP	Arsenic	0.00	mg/L	0.012
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$ICP	Barium	0.0690	mg/L	0.003
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$ICP	Calcium	69.5	mg/L	0.066
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$ICP	Chromium	0.00	mg/L	0.006
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$ICP	Copper	0.00606	mg/L	0.006
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$ICP	Iron	0.641	mg/L	0.018
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$ICP	Lead	0.00	mg/L	0.006
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$ICP	Magnesium	23.9	mg/L	0.021
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$ICP	Manganese	0.0520	mg/L	0.009
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$ICP	Nickel	0.00372	mg/L	0.003
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$ICP	Selenium	0.0261	mg/L	0.009
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$ICP	Silver	0.00	mg/L	0.003
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$ICP	Strontium	0.306	mg/L	0.009
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$ICP	Thallium	AE	mg/L	0.012
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$ICP	Tin	0.00	mg/L	0.006
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$ICP	Zinc	0.0102	mg/L	0.006
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	PB_FU	Lead by Furnace	0.66	ug/L	1.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	AS_FU	Arsenic by Furnace	1.81	ug/L	1.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	CU_FU	Copper by Furnace	3.5	ug/L	1
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	NH3	Ammonia as N	0	mg/L	0.5
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	NO3NO2	Nitrate + Nitrite	2.29	mg/L	0.5
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	NO2	Nitrite as N	0.0251	mg/l	0.005
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	NO3	Nitrate as N (calculated)	2.2649	mg/l	
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	CHLOROPHYLL	Chlorophyll	8.01	mg/m3	1.00
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	Aldrin	AA	ug/L	0.02
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	Chlordane	AA	ug/L	0.10
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	Dieldrin	AA	ug/L	0.02
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	Endrin	AA	ug/L	0.02
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	Heptachlor	AA	ug/L	0.02
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	Toxaphene	AA	ug/L	1.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	PCB 1016	AA	ug/L	0.5
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	PCB 1221	AA	ug/L	0.5
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	PCB 1232	AA	ug/L	0.5
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	PCB 1242	AA	ug/L	0.5
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	PCB 1248	AA	ug/L	0.5
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	PCB 1254	AA	ug/L	0.5
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	PCB 1260	AA	ug/L	0.5
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	Surr: Decachlorobiphenyl	1.12	%	
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$PEST	Surr: Tetrachloro-m-xylene	1.04	%	
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624	Chloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		Vinyl Chloride	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		Bromomethane	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		Chloroethane	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		Acrolein	0	ug/L	100.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		Acrylonitrile	0	ug/L	100.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		Methylene Chloride	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		Chloroform	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		1,2-Dichloroethane-d4	51.0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		Benzene	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		Trichloroethene	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		Bromodichloromethane	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		Dibromochloromethane	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		Bromoform	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		Tetrachloroethene	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		Toluene	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		Toluene-d8	49.6	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		Chlorobenzene	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624		Ethylbenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624	Bromofluorobenzene	85.4	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624	2-Propanone	0	ug/L	60
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624	2-Butanone	0	ug/L	60
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624	Tetrahydrofuran	0	ug/L	
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624	2-chloroethoxy ethene	0	ug/L	
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$624	TOTAL AMOUNT	376	ug/L	
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	1,4-Dichlorobenzene-D4	50	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	pyridine	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	n-nitrosodimethylamine	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	2-Fluorophenol	8.96	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	aniline	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Phenol-d6	6.11	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Phenol	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Bis(2-Chloroethyl)ether	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	2-Chlorophenol	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	n-decane	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Bis(2-chloroisopropyl)ether	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	o-cresol	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	acetophenone	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	n-nitrosodi-n-propylamine	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Hexachloroethane	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Naphthalene-D8	50	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Nitrobenzene-d5	18.6	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	p-cresol	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Nitrobenzene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Isophorone	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Decafluorobiphenyl	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	2-Nitrophenol	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	2,4-Dimethylphenol	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	bis(2-Chloroethoxy)methane	AA	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	2,4-Dichlorophenol	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	1,2,4-Trichlorobenzene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Naphthalene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	1-Fluoronaphthalene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	alpha terpineol	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Hexachlorobutadiene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	4-Chloro-3-methylphenol	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Acenaphthene-d10	50	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Hexachlorocyclopentadiene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	2,3 dichloroaniline	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	2,4,6-Trichlorophenol	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	2-Chloronaphthalene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Dimethyl phthalate	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Acenaphthylene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	2,6-Dinitrotoluene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Acenaphthene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	2,4-Dinitrophenol	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	4-Nitrophenol	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	2,4-Dinitrotoluene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Diethyl phthalate	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	4-Chlorophenyl phenyl ether	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Fluorene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Phenanthrene-D10	50	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	4,6-Dinitro-o-cresol	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	n-nitrosodiphenylamine	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	1,2-Diphenylhydrazine	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	2,4,6-Tribromophenol	25.0	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	4-Bromophenyl phenyl ether	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Hexachlorobenzene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Pentachlorophenol	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	n-octadecane	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Phenanthrene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625	Anthracene	AA	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625		carbazole	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625		Di-n-butyl phthalate	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625		Fluoranthene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625		Chrysene-d12	50	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625		Benzidine	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625		Pyrene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625		Butyl benzyl phthalate	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625		3,3-Dichlorobenzidine	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625		Benzo(a)anthracene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625		Chrysene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625		bis(2-ethylhexyl)phthalate	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625		Di-n-octyl phthalate	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625		Perylene-D12	50	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625		Benzo(b)fluoranthene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625		Benzo(k)fluoranthene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625		Benzo(a)pyrene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625		Indeno(1,2,3-cd)pyrene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625		Dibenzo(a,h)anthracene	AA	ug/L	3.0
AC07120	LM06	Little Miami Watershed	6 (3261-07)	9/17/2012	12:50	\$625		Benzo(ghi)perylene	AA	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30		MF_CF	Fecal Coliform, Membrane Filter	143	CFU/100mL	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30		E-COLI	E.coli (Colilert)	214	MPN	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30		TDS	Total Dissolved Solids	450	mg/L	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30		SO4	Sulfate	51.5	mg/L	25.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30		CL	Chloride	107	mg/L	1.00
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30		TSS	Tot. Suspended Solids	12	mg/L	2
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30		SSC	Suspended Sediment Concentration	17.0	mg/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30		HARD	Hardness as CaCO3	288	mg/l	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30		COD	COD	13	mg/L	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	732	uS/cm	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30		TEMP_FLD	Temperature (Field) Celsius	17.71	Deg C	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30		PH_FLD	pH (Field)	8.65	S.U.	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30		DO_FLD	Dissolved Oxygen (field) mg/L	6.80	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	850	uS/cm	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$ICP	Aluminum	0.416	mg/L	0.348
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$ICP	Antimony	0.00	mg/L	0.006
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$ICP	Barium	0.0691	mg/L	0.003
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$ICP	Calcium	75.4	mg/L	0.066
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$ICP	Chromium	0.00	mg/L	0.006
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$ICP	Copper	0.00	mg/L	0.006
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$ICP	Iron	0.724	mg/L	0.018
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$ICP	Lead	0.00	mg/L	0.006
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$ICP	Magnesium	26.0	mg/L	0.021
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$ICP	Manganese	0.0599	mg/L	0.009
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$ICP	Nickel	0.00	mg/L	0.003
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$ICP	Selenium	0.0101	mg/L	0.009
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$ICP	Silver	0.00	mg/L	0.003
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$ICP	Strontium	0.322	mg/L	0.009
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$ICP	Thallium	0.00	mg/L	0.012
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$ICP	Tin	0.00	mg/L	0.006
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$ICP	Zinc	0.00957	mg/L	0.006
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	PB_FU	Lead by Furnace	0.90	ug/L	1.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	AS_FU	Arsenic by Furnace	1.98	ug/L	1.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	CU_FU	Copper by Furnace	3.3	ug/L	1
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	NH3	Ammonia as N	0	mg/L	0.5
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	NO3NO2	Nitrate + Nitrite	2.31	mg/L	0.5
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	TKN	Total Kjeldahl Nitrogen	0.8245	mg/L	0.5
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	NO2	Nitrite as N	0.0188	mg/l	0.005
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	NO3	Nitrate as N (calculated)	2.2912	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	Aldrin	AA	ug/L	0.1
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	Chlordane	AA	ug/L	0.10
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	Endrin	AA	ug/L	0.02
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	Surr: Decachlorobiphenyl	1.27	%	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$PEST	Surr: Tetrachloro-m-xylene	0.858	%	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	Chloromethane	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	Bromomethane	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	Chloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	Acrolein	0	ug/L	100.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	Acrylonitrile	0	ug/L	100.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	Methylene Chloride	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	Chloroform	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	1,2-Dichloroethane-d4	52.2	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	Benzene	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	Trichloroethene	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	Bromodichloromethane	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	Dibromochloromethane	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	Bromoform	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	Tetrachloroethene	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	Toluene	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	Toluene-d8	49.1	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	Chlorobenzene	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	Ethylbenzene	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	Bromofluorobenzene	85.2	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624	1,4-Dichlorobenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624		2-Propanone	0	ug/L	60
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624		2-Butanone	0	ug/L	60
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624		Tetrahydrofuran	0	ug/L	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$624		TOTAL AMOUNT	375	ug/L	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		pyridine	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		2-Fluorophenol	22.1	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		aniline	0	ug/L	6.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		Phenol-d6	16.3	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		Phenol	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		n-decane	0	ug/L	6.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		o-cresol	0	ug/L	6.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		acetophenone	0	ug/L	6.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		Hexachloroethane	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		Nitrobenzene-d5	40.1	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		p-cresol	0	ug/L	6.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		Nitrobenzene	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		Isophorone	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		Decafluorobiphenyl	33.1	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625		Naphthalene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	1-Fluoronaphthalene	33.2	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	alpha terpineol	0	ug/L	6.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Acenaphthylene	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Acenaphthene	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	4-Nitrophenol	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Diethyl phthalate	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Fluorene	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	2,4,6-Tribromophenol	36.6	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Pentachlorophenol	0	ug/L	6.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	n-octadecane	0	ug/L	6.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Phenanthrene	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Anthracene	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	carbazole	0	ug/L	6.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Fluoranthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Benzidine	0	ug/L	6.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Pyrene	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Chrysene	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Perylene-D12	50.0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Hexachloroethane	0	ug/L	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	2,3-Dichloroaniline	0	ug/L	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Diethylphthalate	0	ug/L	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	Benzo[ghi]perylene	0	ug/L	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	2	ug/L	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	7-Oxabicyclo[4.1.0]heptane T	3	ug/L	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	2-Cyclohexen-1-one T	4	ug/L	
AC07230	LM07	Little Miami Watershed	7	9/19/2012	08:30	\$625	TOTAL AMOUNT	490	ug/L	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	MF_CF	Fecal Coliform, Membrane Filter	79	CFU/100mL	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	E-COLI	E.coli (Colilert)	272	MPN	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	TDS	Total Dissolved Solids	350	mg/L	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	BOD	Biochemical Oxygen Demand	2	mg/L	2



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	SO4	Sulfate	56.0	mg/L	12.5
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	CL	Chloride	107	mg/L	1.00
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	TSS	Tot. Suspended Solids	10	mg/L	2
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	SSC	Suspended Sediment Concentration	12.8	mg/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	HARD	Hardness as CaCO3	288	mg/l	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	COD	COD	5	mg/L	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	740	uS/cm	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	TEMP_FLD	Temperature (Field) Celsius	18.31	Deg C	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	PH_FLD	pH (Field)	8.48	S.U.	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	DO_FLD	Dissolved Oxygen (field) mg/L	8.60	mg/l	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	849	uS/cm	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$ICP	Aluminum	0.00	mg/L	0.348
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$ICP	Antimony	0.00	mg/L	0.006
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$ICP	Arsenic	0.00	mg/L	0.012
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$ICP	Barium	0.0676	mg/L	0.003
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$ICP	Calcium	76.3	mg/L	0.066
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$ICP	Chromium	0.00	mg/L	0.006
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$ICP	Copper	0.00	mg/L	0.006
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$ICP	Iron	0.499	mg/L	0.018
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$ICP	Lead	0.00	mg/L	0.006
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$ICP	Magnesium	26.0	mg/L	0.021
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$ICP	Manganese	0.0399	mg/L	0.009
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$ICP	Nickel	0.00	mg/L	0.003
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$ICP	Selenium	0.0370	mg/L	0.009
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$ICP	Silver	0.00	mg/L	0.003
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$ICP	Strontium	0.325	mg/L	0.009
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$ICP	Thallium	0.0237	mg/L	0.012
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$ICP	Tin	0.00	mg/L	0.006
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$ICP	Zinc	0.00913	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	PB_FU	Lead by Furnace	0.58	ug/L	1.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	AS_FU	Arsenic by Furnace	1.64	ug/L	1.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	CU_FU	Copper by Furnace	2.9	ug/L	1
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	NH3	Ammonia as N	0	mg/L	0.5
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	NO3NO2	Nitrate + Nitrite	2.22	mg/L	0.5
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	TKN	Total Kjeldahl Nitrogen	0.6367	mg/L	0.5
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	NO2	Nitrite as N	0.0224	mg/l	0.005
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	NO3	Nitrate as N (calculated)	2.1976	mg/l	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	CHLOROPHYLL	Chlorophyll	3.74	mg/m3	1.00
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	Aldrin	AA	ug/L	0.1
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	Chlordane	AA	ug/L	0.10
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	Dieldrin	AA	ug/L	0.02
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	Endrin	AA	ug/L	0.02
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	Heptachlor	AA	ug/L	0.02
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	Toxaphene	AA	ug/L	1.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	PCB 1016	AA	ug/L	0.5
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	PCB 1221	AA	ug/L	0.5
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	PCB 1232	AA	ug/L	0.5
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	PCB 1242	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	PCB 1248	AA	ug/L	0.5
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	PCB 1254	AA	ug/L	0.5
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	PCB 1260	AA	ug/L	0.5
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	Surr: Decachlorobiphenyl	1.25	%	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$PEST	Surr: Tetrachloro-m-xylene	0.799	%	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Chloromethane	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Vinyl Chloride	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Bromomethane	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Chloroethane	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Acrolein	0	ug/L	100.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Acrylonitrile	0	ug/L	100.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Methylene Chloride	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Chloroform	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	1,2-Dichloroethane-d4	53.7	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Benzene	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Trichloroethene	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Bromodichloromethane	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Dibromochloromethane	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Bromoform	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Tetrachloroethene	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Toluene	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Toluene-d8	49.6	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Chlorobenzene	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Ethylbenzene	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Bromofluorobenzene	85.4	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	2-Propanone	0	ug/L	60
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	2-Butanone	0	ug/L	60
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	Tetrahydrofuran	0	ug/L	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	2-chloroethoxy ethene	4	ug/L	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$624	TOTAL AMOUNT	382	ug/L	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	pyridine	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	2-Fluorophenol	47.6	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	aniline	0	ug/L	6.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Phenol-d6	30.7	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Phenol	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	2-Chlorophenol	0	ug/L	6.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	n-decane	0	ug/L	6.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	o-cresol	0	ug/L	6.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	acetophenone	0	ug/L	6.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Hexachloroethane	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Nitrobenzene-d5	80.7	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	p-cresol	0	ug/L	6.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Nitrobenzene	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Isophorone	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Decafluorobiphenyl	73.6	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	2-Nitrophenol	0	ug/L	6.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Naphthalene	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	1-Fluoronaphthalene	74.0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	alpha terpineol	0	ug/L	6.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Acenaphthylene	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Acenaphthene	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	4-Nitrophenol	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Diethyl phthalate	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Fluorene	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	2,4,6-Tribromophenol	83.7	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Pentachlorophenol	0	ug/L	6.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	n-octadecane	0	ug/L	6.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Phenanthrene	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Anthracene	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	carbazole	0	ug/L	6.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Fluoranthene	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Benzidine	0	ug/L	6.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Pyrene	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Chrysene	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Perylene-D12	50.0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Hexachloroethane	0	ug/L	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	2,3-Dichloroaniline	0	ug/L	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Diethylphthalate	0	ug/L	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Benzo[ghi]perylene	0	ug/L	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	1,3,2-Dioxaphosphorinane, 4,4,6-trimet T	2	ug/L	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	5	ug/L	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	7-Oxabicyclo[4.1.0]heptane T	5	ug/L	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	2-Cyclohexen-1-one T	9	ug/L	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	2-Chlorocyclohexanol T	2	ug/L	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Acetamide, N-(2-hydroxyphenyl)- T	1	ug/L	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	Cyclohexene, 3-methyl- T	1	ug/L	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	n-Hexadecanoic acid T	2	ug/L	
AC07231	LM08	Little Miami Watershed	8 (3261-06)	9/19/2012	08:45	\$625	TOTAL AMOUNT	717	ug/L	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	MF_CF	Fecal Coliform, Membrane Filter	43	CFU/100mL	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	E-COLI	E.coli (Colilert)	86	MPN	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	TDS	Total Dissolved Solids	260	mg/L	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	SO4	Sulfate	51.2	mg/L	12.5
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	CL	Chloride	107	mg/L	1.00
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	TSS	Tot. Suspended Solids	14	mg/L	2
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	SSC	Suspended Sediment Concentration	16.2	mg/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	HARD	Hardness as CaCO3	290	mg/l	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	COD	COD	1	mg/L	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	742	uS/cm	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	TEMP_FLD	Temperature (Field) Celsius	18.75	Deg C	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	PH_FLD	pH (Field)	8.58	S.U.	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	DO_FLD	Dissolved Oxygen (field) mg/L	9.20	mg/l	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	842	uS/cm	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$ICP	Aluminum	0.381	mg/L	0.348
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$ICP	Antimony	0.00	mg/L	0.006
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$ICP	Barium	0.0676	mg/L	0.003
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$ICP	Calcium	75.8	mg/L	0.066

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$ICP	Chromium	0.00	mg/L	0.006
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$ICP	Copper	0.00612	mg/L	0.006
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$ICP	Iron	0.646	mg/L	0.018
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$ICP	Lead	0.00	mg/L	0.006
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$ICP	Magnesium	25.3	mg/L	0.021
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$ICP	Manganese	0.0451	mg/L	0.009
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$ICP	Nickel	0.00	mg/L	0.003
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$ICP	Selenium	0.0188	mg/L	0.009
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$ICP	Silver	0.00	mg/L	0.003
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$ICP	Strontium	0.314	mg/L	0.009
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$ICP	Thallium	0.00	mg/L	0.012
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$ICP	Tin	0.00	mg/L	0.006
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$ICP	Zinc	0.0184	mg/L	0.006
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	PB_FU	Lead by Furnace	0.86	ug/L	1.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	AS_FU	Arsenic by Furnace	1.67	ug/L	1.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	CU_FU	Copper by Furnace	3.9	ug/L	1
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	NH3	Ammonia as N	0	mg/L	0.5
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	NO3NO2	Nitrate + Nitrite	2.13	mg/L	0.5
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	TKN	Total Kjeldahl Nitrogen	0.6698	mg/L	0.5
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	NO2	Nitrite as N	0.0206	mg/l	0.005
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	NO3	Nitrate as N (calculated)	2.1094	mg/l	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	Aldrin	AA	ug/L	0.1
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	Chlordane	AA	ug/L	0.10
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	4,4-DDD	AA	ug/L	0.02



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	Endrin	AA	ug/L	0.02
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	Toxaphene	AA	ug/L	1.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	Surr: Decachlorobiphenyl	1.23	%	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$PEST	Surr: Tetrachloro-m-xylene	0.852	%	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Chloromethane	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Bromomethane	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Chloroethane	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Acrolein	0	ug/L	100.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Acrylonitrile	0	ug/L	100.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Methylene Chloride	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Chloroform	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	1,2-Dichloroethane-d4	52.6	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Benzene	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Trichloroethene	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Bromodichloromethane	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Dibromochloromethane	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Bromoform	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Tetrachloroethene	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Toluene	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Toluene-d8	47.4	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Chlorobenzene	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Ethylbenzene	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Bromofluorobenzene	76.6	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	2-Propanone	0	ug/L	60
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	2-Butanone	0	ug/L	60
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	Tetrahydrofuran	0	ug/L	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	2-chloroethoxy ethene	0	ug/L	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$624	TOTAL AMOUNT	327	ug/L	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	pyridine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	2-Fluorophenol	46.7	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	aniline	0	ug/L	6.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Phenol-d6	35.0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Phenol	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	2-Chlorophenol	0	ug/L	6.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	n-decane	0	ug/L	6.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	o-cresol	0	ug/L	6.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	acetophenone	0	ug/L	6.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Hexachloroethane	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Nitrobenzene-d5	89.3	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	p-cresol	0	ug/L	6.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Nitrobenzene	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Isophorone	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Decafluorobiphenyl	79.7	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	2-Nitrophenol	0	ug/L	6.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Naphthalene	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	1-Fluoronaphthalene	80.0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	alpha terpineol	0	ug/L	6.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Acenaphthylene	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Acenaphthene	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	4-Nitrophenol	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Diethyl phthalate	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Fluorene	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	2,4,6-Tribromophenol	78.7	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Pentachlorophenol	0	ug/L	6.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	n-octadecane	0	ug/L	6.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Phenanthrene	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Anthracene	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	carbazole	0	ug/L	6.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Fluoranthene	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Benzidine	0	ug/L	6.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Pyrene	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Chrysene	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Perylene-D12	50.0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Hexachloroethane	0	ug/L	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	2,3-Dichloroaniline	0	ug/L	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Diethylphthalate	0	ug/L	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Benzo[ghi]perylene	0	ug/L	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	Benzene, 1-[(2-methyl-2-propenyl)oxy]- T	2	ug/L	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	6	ug/L	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	7-Oxabicyclo[4.1.0]heptane T	6	ug/L	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	2,3-Butanediol, [S-(R*,R*)]- T	2	ug/L	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	2-Cyclohexen-1-one T	9	ug/L	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	2-Propenal, 3-(2,2,6-trimethyl-7-oxabi T	1	ug/L	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	trans-Decalin, 2-methyl- T	1	ug/L	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	n-Hexadecanoic acid T	1	ug/L	
AC07232	LM09	Little Miami Watershed	9	9/19/2012	09:00	\$625	TOTAL AMOUNT	738	ug/L	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	MF_CF	Fecal Coliform, Membrane Filter	121	CFU/100mL	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	E-COLI	E.coli (Colilert)	135	MPN	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	TDS	Total Dissolved Solids	400	mg/L	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	SO4	Sulfate	50.0	mg/L	12.5
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	CL	Chloride	110	mg/L	1.00
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	TSS	Tot. Suspended Solids	12	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	SSC	Suspended Sediment Concentration	13.5	mg/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	HARD	Hardness as CaCO3	284	mg/l	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	COD	COD	7	mg/L	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	744	uS/cm	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	TEMP_FLD	Temperature (Field) Celsius	18.25	Deg C	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	PH_FLD	pH (Field)	8.56	S.U.	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	DO_FLD	Dissolved Oxygen (field) mg/L	7.98	mg/l	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	853	uS/cm	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$ICP	Aluminum	0.354	mg/L	0.348
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$ICP	Antimony	0.00	mg/L	0.006
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$ICP	Arsenic	0.00	mg/L	0.012
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$ICP	Barium	0.0697	mg/L	0.003
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$ICP	Calcium	78.3	mg/L	0.066
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$ICP	Chromium	0.00	mg/L	0.006
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$ICP	Copper	0.00	mg/L	0.006
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$ICP	Iron	0.601	mg/L	0.018
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$ICP	Lead	0.00	mg/L	0.006
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$ICP	Magnesium	26.0	mg/L	0.021
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$ICP	Manganese	0.0470	mg/L	0.009
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$ICP	Nickel	0.00	mg/L	0.003
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$ICP	Selenium	0.00	mg/L	0.009
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$ICP	Silver	0.00	mg/L	0.003
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$ICP	Strontium	0.322	mg/L	0.009
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$ICP	Thallium	0.00	mg/L	0.012
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$ICP	Tin	0.00	mg/L	0.006
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$ICP	Zinc	0.00784	mg/L	0.006
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	PB_FU	Lead by Furnace	0.63	ug/L	1.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	AS_FU	Arsenic by Furnace	1.94	ug/L	1.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	CD_FU	Cadmium by Furnace	AA	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	CU_FU	Copper by Furnace	2.8	ug/L	1
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	NH3	Ammonia as N	0	mg/L	0.5
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	NO3NO2	Nitrate + Nitrite	2.00	mg/L	0.5
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	TKN	Total Kjeldahl Nitrogen	0.5823	mg/L	0.5
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	NO2	Nitrite as N	0.0181	mg/l	0.005
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	NO3	Nitrate as N (calculated)	1.9819	mg/l	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	Aldrin	AA	ug/L	0.1
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	Chlordane	AA	ug/L	0.10
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	Dieldrin	AA	ug/L	0.02
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	Endrin	AA	ug/L	0.02
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	Heptachlor	AA	ug/L	0.02
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	Toxaphene	AA	ug/L	1.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	PCB 1016	AA	ug/L	0.5
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	PCB 1221	AA	ug/L	0.5
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	PCB 1232	AA	ug/L	0.5
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	PCB 1242	AA	ug/L	0.5
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	PCB 1248	AA	ug/L	0.5
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	PCB 1254	AA	ug/L	0.5
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	PCB 1260	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	Surr: Decachlorobiphenyl	1.04	%	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$PEST	Surr: Tetrachloro-m-xylene	0.759	%	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Chloromethane	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Vinyl Chloride	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Bromomethane	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Chloroethane	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Acrolein	0	ug/L	100.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Acrylonitrile	0	ug/L	100.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Methylene Chloride	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Chloroform	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	1,2-Dichloroethane-d4	53.0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Benzene	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Trichloroethene	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Bromodichloromethane	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Dibromochloromethane	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Bromoform	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Tetrachloroethene	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Toluene	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Toluene-d8	47.8	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Chlorobenzene	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Ethylbenzene	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Bromofluorobenzene	76.2	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	2-Propanone	0	ug/L	60
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	2-Butanone	0	ug/L	60
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	Tetrahydrofuran	0	ug/L	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	2-chloroethoxy ethene	0	ug/L	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$624	TOTAL AMOUNT	330	ug/L	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	pyridine	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	2-Fluorophenol	44.2	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	aniline	0	ug/L	6.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Phenol-d6	28.6	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Phenol	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	2-Chlorophenol	0	ug/L	6.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	n-decane	0	ug/L	6.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	o-cresol	0	ug/L	6.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	acetophenone	0	ug/L	6.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Hexachloroethane	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Nitrobenzene-d5	83.2	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	p-cresol	0	ug/L	6.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Nitrobenzene	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Isophorone	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Decafluorobiphenyl	73.8	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	2-Nitrophenol	0	ug/L	6.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Naphthalene	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	1-Fluoronaphthalene	75.7	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	alpha terpineol	0	ug/L	6.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Acenaphthylene	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Acenaphthene	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	4-Nitrophenol	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Diethyl phthalate	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Fluorene	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	2,4,6-Tribromophenol	85.7	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Hexachlorobenzene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Pentachlorophenol	0	ug/L	6.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	n-octadecane	0	ug/L	6.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Phenanthrene	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Anthracene	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	carbazole	0	ug/L	6.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Fluoranthene	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Benzidine	0	ug/L	6.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Pyrene	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Chrysene	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Perylene-D12	50.0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Hexachloroethane	0	ug/L	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	2,3-Dichloroaniline	0	ug/L	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Diethylphthalate	0	ug/L	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	Benzo[ghi]perylene	0	ug/L	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625	7-Oxabicyclo[4.1.0]heptane T	5	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625		2-Cyclohexen-1-one T	9	ug/L	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625		2-Chlorocyclohexanol T	2	ug/L	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625		Pyridine, 3-butyl-, 1-oxide T	1	ug/L	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625		Cyclohexane, ethylidene- T	1	ug/L	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625		Tetradecanoic acid T	4	ug/L	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625		n-Hexadecanoic acid T	9	ug/L	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625		Octadecanoic acid T	6	ug/L	
AC07233	LM10	Little Miami Watershed	10 (3261-10)	9/19/2012	09:15	\$625		TOTAL AMOUNT	728	ug/L	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		MF_CF	Fecal Coliform, Membrane Filter	164	CFU/100mL	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		E-COLI	E.coli (Colilert)	144	MPN	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		TDS	Total Dissolved Solids	340	mg/L	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		SO4	Sulfate	46.0	mg/L	12.5
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		CL	Chloride	89.5	mg/L	1.00
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		TSS	Tot. Suspended Solids	18	mg/L	2
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		SSC	Suspended Sediment Concentration	14.5	mg/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		HARD	Hardness as CaCO3	272	mg/l	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		COD	COD	5	mg/L	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	643	uS/cm	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		TEMP_FLD	Temperature (Field) Celsius	18.40	Deg C	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		PH_FLD	pH (Field)	8.41	S.U.	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		DO_FLD	Dissolved Oxygen (field) mg/L	8.93	mg/l	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		CONDUCTIVITY	Specific Conductivity (uS/cm)	735	uS/cm	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$ICP	Aluminum	0.00	mg/L	0.348
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$ICP	Antimony	0.00	mg/L	0.006
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$ICP	Arsenic	0.00	mg/L	0.012
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$ICP	Barium	0.0554	mg/L	0.003
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$ICP	Beryllium	0.00	mg/L	0.009
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$ICP	Cadmium	0.00	mg/L	0.012
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$ICP	Calcium	70.4	mg/L	0.066
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$ICP	Chromium	0.00	mg/L	0.006
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$ICP	Cobalt	0.00	mg/L	0.006
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$ICP	Copper	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$ICP	Iron	0.584	mg/L	0.018
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$ICP	Lead	0.00	mg/L	0.006
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$ICP	Magnesium	21.3	mg/L	0.021
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$ICP	Manganese	0.0686	mg/L	0.009
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$ICP	Nickel	0.00	mg/L	0.003
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$ICP	Selenium	0.0139	mg/L	0.009
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$ICP	Silver	0.00	mg/L	0.003
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$ICP	Strontium	0.267	mg/L	0.009
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$ICP	Thallium	0.00	mg/L	0.012
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$ICP	Tin	0.00	mg/L	0.006
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$ICP	Zinc	0.00649	mg/L	0.006
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	PB_FU	Lead by Furnace	0.64	ug/L	1.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	AS_FU	Arsenic by Furnace	1.85	ug/L	1.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	CU_FU	Copper by Furnace	2.7	ug/L	1
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	NH3	Ammonia as N	0	mg/L	0.5
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	NO3NO2	Nitrate + Nitrite	2.24	mg/L	0.5
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	TKN	Total Kjeldahl Nitrogen	0.6156	mg/L	0.5
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	NO2	Nitrite as N	0.0188	mg/l	0.005
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	NO3	Nitrate as N (calculated)	2.2212	mg/l	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	Aldrin	AA	ug/L	0.1
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	Chlordane	AA	ug/L	0.10
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	Dieldrin	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	Endrin	AA	ug/L	0.02
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	Heptachlor	AA	ug/L	0.02
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	Toxaphene	AA	ug/L	1.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	PCB 1016	AA	ug/L	0.5
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	PCB 1221	AA	ug/L	0.5
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	PCB 1232	AA	ug/L	0.5
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	PCB 1242	AA	ug/L	0.5
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	PCB 1248	AA	ug/L	0.5
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	PCB 1254	AA	ug/L	0.5
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	PCB 1260	AA	ug/L	0.5
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	Surr: Decachlorobiphenyl	1.31	%	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$PEST	Surr: Tetrachloro-m-xylene	0.779	%	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$624	Chloromethane	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$624	Vinyl Chloride	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$624	Bromomethane	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$624	Chloroethane	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$624	Acrolein	0	ug/L	100.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$624	Acrylonitrile	0	ug/L	100.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$624	Methylene Chloride	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$624	Chloroform	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$624	1,2-Dichloroethane-d4	52.9	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	Benzene	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	Trichloroethene	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	Bromodichloromethane	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	Dibromochloromethane	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	Bromoform	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	Tetrachloroethene	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	Toluene	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	Toluene-d8	50.4	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	Chlorobenzene	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	Ethylbenzene	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	Bromofluorobenzene	84.4	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	2-Propanone	0	ug/L	60
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	2-Butanone	0	ug/L	60
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	Tetrahydrofuran	0	ug/L	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	2-chloroethoxy ethene	0	ug/L	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$624	TOTAL AMOUNT	338	ug/L	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$625	pyridine	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$625	2-Fluorophenol	40.9	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40		\$625	aniline	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Phenol-d6	27.7	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Phenol	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	2-Chlorophenol	0	ug/L	6.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	n-decane	0	ug/L	6.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	o-cresol	0	ug/L	6.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	acetophenone	0	ug/L	6.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Hexachloroethane	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Nitrobenzene-d5	70.5	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	p-cresol	0	ug/L	6.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Nitrobenzene	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Isophorone	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Decafluorobiphenyl	55.5	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	2-Nitrophenol	0	ug/L	6.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Naphthalene	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	1-Fluoronaphthalene	64.7	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	alpha terpineol	0	ug/L	6.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Acenaphthylene	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Acenaphthene	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	4-Nitrophenol	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Diethyl phthalate	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Fluorene	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	2,4,6-Tribromophenol	77.1	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Pentachlorophenol	0	ug/L	6.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	n-octadecane	0	ug/L	6.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Phenanthrene	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Anthracene	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	carbazole	0	ug/L	6.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Fluoranthene	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Benzidine	0	ug/L	6.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Pyrene	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Chrysene	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Perylene-D12	50.0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Benzo(b)fluoranthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Hexachloroethane	0	ug/L	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	2,3-Dichloroaniline	0	ug/L	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Diethylphthalate	0	ug/L	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Benzo[ghi]perylene	0	ug/L	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	1-Propenylaziridine T	5	ug/L	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	2-Cyclohexen-1-one T	8	ug/L	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	2-Chlorocyclohexanol T	1	ug/L	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Ethane, 1,1,2-trichloro-1,2,2-trifluor T	1	ug/L	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	Metacetamol T	1	ug/L	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	1H-Inden-1-one, octahydro-7a-methyl-, T	1	ug/L	
AC07234	LM11	Little Miami Watershed	11	9/19/2012	09:40	\$625	TOTAL AMOUNT	655	ug/L	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	121	CFU/100mL	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	E-COLI	E.coli (Colilert)	186	MPN	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	TDS	Total Dissolved Solids	320	mg/L	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	SO4	Sulfate	46.2	mg/L	12.5
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	CL	Chloride	88.5	mg/L	1.00
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	TSS	Tot. Suspended Solids	10	mg/L	2
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	SSC	Suspended Sediment Concentration	13.2	mg/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	HARD	Hardness as CaCO3	250	mg/l	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	COD	COD	5	mg/L	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	620	uS/cm	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	18.78	Deg C	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	PH_FLD	pH (Field)	8.39	S.U.	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	8.65	mg/l	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	703	uS/cm	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$ICP	Aluminum	0.412	mg/L	0.348
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$ICP	Antimony	0.00	mg/L	0.006
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$ICP	Barium	0.0587	mg/L	0.003
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$ICP	Calcium	72.3	mg/L	0.066
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$ICP	Chromium	0.00	mg/L	0.006
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$ICP	Copper	0.00	mg/L	0.006
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$ICP	Iron	0.738	mg/L	0.018
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$ICP	Lead	0.00	mg/L	0.006
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$ICP	Magnesium	21.5	mg/L	0.021
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$ICP	Manganese	0.0787	mg/L	0.009
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$ICP	Nickel	0.00	mg/L	0.003
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$ICP	Selenium	0.0149	mg/L	0.009
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$ICP	Silver	0.00	mg/L	0.003
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$ICP	Strontium	0.273	mg/L	0.009
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$ICP	Thallium	0.00	mg/L	0.012
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$ICP	Tin	0.00	mg/L	0.006
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$ICP	Zinc	0.00722	mg/L	0.006
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	PB_FU	Lead by Furnace	0.76	ug/L	1.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	AS_FU	Arsenic by Furnace	1.99	ug/L	1.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	CU_FU	Copper by Furnace	2.9	ug/L	1
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	NO3NO2	Nitrate + Nitrite	2.10	mg/L	0.5
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	TKN	Total Kjeldahl Nitrogen	0.8182	mg/L	0.5
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	NO2	Nitrite as N	0.0211	mg/l	0.005
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	NO3	Nitrate as N (calculated)	2.0789	mg/l	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	Aldrin	AA	ug/L	0.1
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	Chlordane	AA	ug/L	0.10
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	Endrin	AA	ug/L	0.02
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	Toxaphene	AA	ug/L	1.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	Surr: Decachlorobiphenyl	1.18	%	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$PEST	Surr: Tetrachloro-m-xylene	0.691	%	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624	Chloromethane	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624	Vinyl Chloride	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		Bromomethane	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		Chloroethane	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		Acrolein	0	ug/L	100.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		Acrylonitrile	0	ug/L	100.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		Methylene Chloride	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		Chloroform	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		1,2-Dichloroethane-d4	52.7	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		Benzene	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		Trichloroethene	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		Bromodichloromethane	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		Bromoform	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		Toluene	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		Toluene-d8	52.7	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		Chlorobenzene	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		Ethylbenzene	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		Bromofluorobenzene	90.0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		2-Propanone	0	ug/L	60
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		2-Butanone	0	ug/L	60
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		Tetrahydrofuran	0	ug/L	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		2-chloroethoxy ethene	0	ug/L	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$624		TOTAL AMOUNT	383	ug/L	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		pyridine	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		2-Fluorophenol	44.1	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		aniline	0	ug/L	6.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Phenol-d6	30.1	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Phenol	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		2-Chlorophenol	0	ug/L	6.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		n-decane	0	ug/L	6.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		o-cresol	0	ug/L	6.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		acetophenone	0	ug/L	6.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Hexachloroethane	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Nitrobenzene-d5	70.4	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		p-cresol	0	ug/L	6.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Nitrobenzene	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Isophorone	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Decafluorobiphenyl	58.4	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		2-Nitrophenol	0	ug/L	6.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		2,4-Dichlorophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Naphthalene	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		1-Fluoronaphthalene	65.3	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		alpha terpineol	0	ug/L	6.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Acenaphthylene	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Acenaphthene	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		4-Nitrophenol	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Diethyl phthalate	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Fluorene	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		2,4,6-Tribromophenol	77.1	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Pentachlorophenol	0	ug/L	6.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		n-octadecane	0	ug/L	6.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Phenanthrene	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Anthracene	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		carbazole	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Fluoranthene	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Benzidine	0	ug/L	6.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Pyrene	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Chrysene	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Perylene-D12	50.0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Hexachloroethane	0	ug/L	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		2,3-Dichloroaniline	0	ug/L	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Diethylphthalate	0	ug/L	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Benzo[ghi]perylene	0	ug/L	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		1-Propenylaziridine T	5	ug/L	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		2-Cyclohexen-1-one T	9	ug/L	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		2-Chlorocyclohexanol T	2	ug/L	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		2,4,7,9-Tetramethyl-5-decyn-4,7-diol T	1	ug/L	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Cyclohexanone, 5-methyl-2-(1-methyleth T	1	ug/L	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625		Bis(2-ethylhexyl) phthalate T2	1	ug/L	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625	2,7-Diphenyl-5H-1,3,4-thiadiazolo[3,2- T	2	ug/L	
AC07235	LM12	Little Miami Watershed	12 (3261-04)	9/19/2012	10:00	\$625	TOTAL AMOUNT	665	ug/L	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	129	CFU/100mL	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	E-COLI	E.coli (Colilert)	115	MPN	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	TDS	Total Dissolved Solids	380	mg/L	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	SO4	Sulfate	46.8	mg/L	12.5
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	CL	Chloride	88.9	mg/L	1.00
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	TSS	Tot. Suspended Solids	10	mg/L	2
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	SSC	Suspended Sediment Concentration	10.5	mg/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	HARD	Hardness as CaCO3	262	mg/l	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	COD	COD	3	mg/L	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	657	uS/cm	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	19.16	Deg C	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	PH_FLD	pH (Field)	8.40	S.U.	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	9.19	mg/l	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	739	uS/cm	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$ICP	Antimony	0.00	mg/L	0.006
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$ICP	Barium	0.0553	mg/L	0.003
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$ICP	Calcium	72.1	mg/L	0.066
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$ICP	Chromium	0.00	mg/L	0.006
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$ICP	Copper	0.00	mg/L	0.006
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$ICP	Iron	0.407	mg/L	0.018
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$ICP	Lead	0.00	mg/L	0.006
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$ICP	Magnesium	21.2	mg/L	0.021
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$ICP	Manganese	0.0565	mg/L	0.009
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$ICP	Nickel	0.00	mg/L	0.003
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$ICP	Selenium	0.0187	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$ICP	Silver	0.00	mg/L	0.003
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$ICP	Strontium	0.267	mg/L	0.009
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$ICP	Thallium	0.00	mg/L	0.012
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$ICP	Tin	0.00	mg/L	0.006
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$ICP	Zinc	0.00	mg/L	0.006
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	PB_FU	Lead by Furnace	0.47	ug/L	1.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	AS_FU	Arsenic by Furnace	2.01	ug/L	1.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	CU_FU	Copper by Furnace	2.5	ug/L	1
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	NO3NO2	Nitrate + Nitrite	2.01	mg/L	0.5
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	TKN	Total Kjeldahl Nitrogen	0.6989	mg/L	0.5
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	NO2	Nitrite as N	0.0164	mg/l	0.005
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	NO3	Nitrate as N (calculated)	1.9936	mg/l	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	Aldrin	AA	ug/L	0.1
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	Chlordane	AA	ug/L	0.10
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	Endrin	AA	ug/L	0.02
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	Heptachlor	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	Surr: Decachlorobiphenyl	0.844	%	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$PEST	Surr: Tetrachloro-m-xylene	0.981	%	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624	Chloromethane	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624	Bromomethane	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624	Chloroethane	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624	Acrolein	0	ug/L	100.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624	Acrylonitrile	0	ug/L	100.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624	Methylene Chloride	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624	Chloroform	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624	1,2-Dichloroethane-d4	53.3	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624	Benzene	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624	Trichloroethene	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624	1,2-Dichloropropane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624		Bromoform	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624		Toluene	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624		Toluene-d8	49.6	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624		Chlorobenzene	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624		Ethylbenzene	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624		Bromofluorobenzene	80.8	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624		2-Propanone	0	ug/L	60
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624		2-Butanone	0	ug/L	60
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624		Tetrahydrofuran	1	ug/L	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$624		TOTAL AMOUNT	373	ug/L	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		pyridine	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		2-Fluorophenol	49.5	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		aniline	0	ug/L	6.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Phenol-d6	34.8	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Phenol	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		n-decane	0	ug/L	6.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		o-cresol	0	ug/L	6.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		acetophenone	0	ug/L	6.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Hexachloroethane	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Nitrobenzene-d5	78.7	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		p-cresol	0	ug/L	6.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Nitrobenzene	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Isophorone	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Decafluorobiphenyl	60.2	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Naphthalene	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		1-Fluoronaphthalene	70.5	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		alpha terpineol	0	ug/L	6.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Acenaphthylene	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Acenaphthene	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		4-Nitrophenol	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Diethyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	Fluorene	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	2,4,6-Tribromophenol	81.2	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	Pentachlorophenol	0	ug/L	6.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	n-octadecane	0	ug/L	6.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	Phenanthrene	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	Anthracene	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	carbazole	0	ug/L	6.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	Fluoranthene	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	Benzidine	0	ug/L	6.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	Pyrene	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	Chrysene	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	Perylene-D12	50.0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625	Hexachloroethane	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Diethylphthalate	0	ug/L	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	3	ug/L	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		7-Oxabicyclo[4.1.0]heptane T	6	ug/L	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		2-Cyclohexen-1-one T	9	ug/L	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		2-Chlorocyclohexanol T	2	ug/L	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Butane, 1,2,3,4-tetrachloro-1,1,2,3,4, T	1	ug/L	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Pyridine, 3-butyl-, 1-oxide T	1	ug/L	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		Cyclohexene, 1-methyl- T	1	ug/L	
AC07236	LM13	Little Miami Watershed	13 (3261-03)	9/19/2012	10:30	\$625		TOTAL AMOUNT	698	ug/L	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50		MF_CF	Fecal Coliform, Membrane Filter	157	CFU/100mL	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50		E-COLI	E.coli (Colilert)	108	MPN	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50		TDS	Total Dissolved Solids	360	mg/L	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50		SO4	Sulfate	49.2	mg/L	12.5
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50		CL	Chloride	88.6	mg/L	1.00
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50		TSS	Tot. Suspended Solids	12	mg/L	2
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50		SSC	Suspended Sediment Concentration	22.6	mg/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50		HARD	Hardness as CaCO3	268	mg/l	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50		COD	COD	3	mg/L	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	652	uS/cm	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50		TEMP_FLD	Temperature (Field) Celsius	18.84	Deg C	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50		PH_FLD	pH (Field)	8.42	S.U.	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50		DO_FLD	Dissolved Oxygen (field) mg/L	8.88	mg/l	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50		CONDUCTIVITY	Specific Conductivity (uS/cm)	736	uS/cm	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50		\$ICP	Aluminum	0.618	mg/L	0.348
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50		\$ICP	Antimony	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$ICP	Arsenic	0.00	mg/L	0.012
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$ICP	Barium	0.0650	mg/L	0.003
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$ICP	Calcium	77.2	mg/L	0.066
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$ICP	Chromium	0.00	mg/L	0.006
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$ICP	Copper	0.00	mg/L	0.006
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$ICP	Iron	1.21	mg/L	0.018
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$ICP	Lead	0.00	mg/L	0.006
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$ICP	Magnesium	22.9	mg/L	0.021
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$ICP	Manganese	0.205	mg/L	0.009
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$ICP	Nickel	0.00305	mg/L	0.003
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$ICP	Selenium	0.0230	mg/L	0.009
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$ICP	Silver	0.00	mg/L	0.003
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$ICP	Strontium	0.288	mg/L	0.009
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$ICP	Thallium	0.0176	mg/L	0.012
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$ICP	Tin	0.00	mg/L	0.006
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$ICP	Zinc	0.00895	mg/L	0.006
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	PB_FU	Lead by Furnace	1.15	ug/L	1.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	AS_FU	Arsenic by Furnace	2.02	ug/L	1.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	CU_FU	Copper by Furnace	3.3	ug/L	1
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	NH3	Ammonia as N	0	mg/L	0.5
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	NO3NO2	Nitrate + Nitrite	1.95	mg/L	0.5
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	TKN	Total Kjeldahl Nitrogen	0.7102	mg/L	0.5
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	NO2	Nitrite as N	0.0186	mg/l	0.005
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	NO3	Nitrate as N (calculated)	1.9314	mg/l	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	Aldrin	AA	ug/L	0.1
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	Alpha-BHC	AA	ug/L	0.02



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	Chlordane	AA	ug/L	0.10
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	Dieldrin	AA	ug/L	0.02
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	Endrin	AA	ug/L	0.02
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	Heptachlor	AA	ug/L	0.02
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	Toxaphene	AA	ug/L	1.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	PCB 1016	AA	ug/L	0.5
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	PCB 1221	AA	ug/L	0.5
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	PCB 1232	AA	ug/L	0.5
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	PCB 1242	AA	ug/L	0.5
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	PCB 1248	AA	ug/L	0.5
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	PCB 1254	AA	ug/L	0.5
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	PCB 1260	AA	ug/L	0.5
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	Surr: Decachlorobiphenyl	0.815	%	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$PEST	Surr: Tetrachloro-m-xylene	0.923	%	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624	Chloromethane	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624	Vinyl Chloride	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624	Bromomethane	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624	Chloroethane	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624	Acrolein	0	ug/L	100.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624	1,1-Dichloroethene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		Acrylonitrile	0	ug/L	100.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		Methylene Chloride	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		Chloroform	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		1,2-Dichloroethane-d4	52.5	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		Benzene	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		Trichloroethene	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		Bromodichloromethane	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		Dibromochloromethane	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		Bromoform	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		Tetrachloroethene	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		Toluene	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		Toluene-d8	48.4	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		Chlorobenzene	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		Ethylbenzene	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		Bromofluorobenzene	80.9	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		2-Propanone	0	ug/L	60
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624		2-Butanone	0	ug/L	60

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624	Tetrahydrofuran	0	ug/L	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624	2-chloroethoxy ethene	0	ug/L	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$624	TOTAL AMOUNT	370	ug/L	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	pyridine	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	2-Fluorophenol	42.1	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	aniline	0	ug/L	6.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	Phenol-d6	29.5	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	Phenol	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	2-Chlorophenol	0	ug/L	6.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	n-decane	0	ug/L	6.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	o-cresol	0	ug/L	6.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	acetophenone	0	ug/L	6.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	Hexachloroethane	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	Nitrobenzene-d5	77.6	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	p-cresol	0	ug/L	6.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	Nitrobenzene	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	Isophorone	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	Decafluorobiphenyl	63.6	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	2-Nitrophenol	0	ug/L	6.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	Naphthalene	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	1-Fluoronaphthalene	72.6	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	alpha terpineol	0	ug/L	6.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625	Hexachlorobutadiene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Acenaphthylene	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Acenaphthene	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		4-Nitrophenol	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Diethyl phthalate	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Fluorene	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		2,4,6-Tribromophenol	82.9	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Pentachlorophenol	0	ug/L	6.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		n-octadecane	0	ug/L	6.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Phenanthrene	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Anthracene	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		carbazole	0	ug/L	6.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Fluoranthene	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Benzidine	0	ug/L	6.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Pyrene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Chrysene	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Perylene-D12	50.0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Hexachloroethane	0	ug/L	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		2,3-Dichloroaniline	0	ug/L	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Diethylphthalate	0	ug/L	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Benzo[ghi]perylene	0	ug/L	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		7-Oxabicyclo[4.1.0]heptane T	6	ug/L	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		2-Cyclohexen-1-one T	9	ug/L	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		2-Chlorocyclohexanol T	2	ug/L	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Pentane, 1,1,2,3,4,5-hexachloro-1,2,3, T	1	ug/L	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Pyridine, 3-butyl-, 1-oxide T	1	ug/L	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		Benzene, [1-(2,4-cyclopentadien-1-ylid T	1	ug/L	
AC07237	LM14	Little Miami Watershed	14	9/19/2012	10:50	\$625		TOTAL AMOUNT	688	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00		MF_CF	Fecal Coliform, Membrane Filter	93	CFU/100mL	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00		E-COLI	E.coli (Colilert)	88	MPN	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00		TDS	Total Dissolved Solids	390	mg/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00		BOD	Biochemical Oxygen Demand	2	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	SO4	Sulfate	46.8	mg/L	12.5
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	CL	Chloride	87.7	mg/L	1.00
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	TSS	Tot. Suspended Solids	14	mg/L	2
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	SSC	Suspended Sediment Concentration	8.7	mg/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	HARD	Hardness as CaCO3	270	mg/l	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	COD	COD	7	mg/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	658	uS/cm	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	18.98	Deg C	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	PH_FLD	pH (Field)	8.37	S.U.	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	10.39	mg/l	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	744	uS/cm	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$ICP	Antimony	0.00	mg/L	0.006
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$ICP	Barium	0.0565	mg/L	0.003
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$ICP	Calcium	75.7	mg/L	0.066
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$ICP	Chromium	0.00	mg/L	0.006
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$ICP	Copper	0.00	mg/L	0.006
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$ICP	Iron	0.412	mg/L	0.018
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$ICP	Lead	0.00	mg/L	0.006
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$ICP	Magnesium	21.4	mg/L	0.021
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$ICP	Manganese	0.0689	mg/L	0.009
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$ICP	Nickel	0.00	mg/L	0.003
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$ICP	Selenium	0.0214	mg/L	0.009
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$ICP	Silver	0.00	mg/L	0.003
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$ICP	Strontium	0.270	mg/L	0.009
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$ICP	Thallium	0.00	mg/L	0.012
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$ICP	Tin	0.00	mg/L	0.006
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$ICP	Zinc	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	PB_FU	Lead by Furnace	0.46	ug/L	1.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	AS_FU	Arsenic by Furnace	1.86	ug/L	1.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	CU_FU	Copper by Furnace	2.6	ug/L	1
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	NO3NO2	Nitrate + Nitrite	1.90	mg/L	0.5
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	NO2	Nitrite as N	0.0126	mg/l	0.005
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	NO3	Nitrate as N (calculated)	1.8874	mg/l	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	CHLOROPHYLL	Chlorophyll	3.74	mg/m3	1.00
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	Aldrin	AA	ug/L	0.1
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	Chlordane	AA	ug/L	0.10
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	Endrin	AA	ug/L	0.02
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	Toxaphene	AA	ug/L	1.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	PCB 1242	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	Surr: Decachlorobiphenyl	1.40	%	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$PEST	Surr: Tetrachloro-m-xylene	0.706	%	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	Chloromethane	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	Bromomethane	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	Chloroethane	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	Acrolein	0	ug/L	100.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	Acrylonitrile	0	ug/L	100.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	Methylene Chloride	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	Chloroform	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	1,2-Dichloroethane-d4	52.9	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	Benzene	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	Trichloroethene	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	Bromodichloromethane	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	Dibromochloromethane	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624	Bromoform	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624		Toluene	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624		Toluene-d8	50.1	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624		Chlorobenzene	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624		Ethylbenzene	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624		Bromofluorobenzene	82.8	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624		2-Propanone	0	ug/L	60
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624		2-Butanone	0	ug/L	60
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624		Tetrahydrofuran	1	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624		2-chloroethoxy ethene	0	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$624		TOTAL AMOUNT	374	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		pyridine	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		2-Fluorophenol	49.7	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		aniline	0	ug/L	6.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Phenol-d6	32.9	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Phenol	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		2-Chlorophenol	0	ug/L	6.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		n-decane	0	ug/L	6.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		o-cresol	0	ug/L	6.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		acetophenone	0	ug/L	6.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Hexachloroethane	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Nitrobenzene-d5	84.1	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		p-cresol	0	ug/L	6.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Nitrobenzene	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Isophorone	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Decafluorobiphenyl	80.8	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		2-Nitrophenol	0	ug/L	6.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Naphthalene	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		1-Fluoronaphthalene	83.5	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		alpha terpineol	0	ug/L	6.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Acenaphthylene	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Acenaphthene	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		4-Nitrophenol	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Diethyl phthalate	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Fluorene	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		2,4,6-Tribromophenol	86.8	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Pentachlorophenol	0	ug/L	6.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		n-octadecane	0	ug/L	6.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Phenanthrene	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Anthracene	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		carbazole	0	ug/L	6.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Fluoranthene	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Benzidine	0	ug/L	6.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Pyrene	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Chrysene	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Perylene-D12	50.0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Hexachloroethane	0	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		2,3-Dichloroaniline	0	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Diethylphthalate	0	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625	Benzo[ghi]perylene	0	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	2	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625	7-Oxabicyclo[4.1.0]heptane T	6	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625	2-Cyclohexen-1-one T	10	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625	2-Chlorocyclohexanol T	2	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625	Bi-2-cyclohexen-1-yl T	1	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625	Butane, 1,2,3,4-tetrachloro-1,1,2,3,4, T	1	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625	Pyridine, 3-butyl-, 1-oxide T	1	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625	Cyclohexene, 1-ethyl- T	1	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625	Tetradecanoic acid T	1	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625	n-Hexadecanoic acid T	4	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625	Pentadecanoic acid T	1	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625	N,N-Dimethyltetradecanamine T	1	ug/L	
AC07238	LM15	Little Miami Watershed	15	9/19/2012	11:00	\$625	TOTAL AMOUNT	749	ug/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	MF_CF	Fecal Coliform, Membrane Filter	93	CFU/100mL	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	E-COLI	E.coli (Colilert)	126	MPN	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	TDS	Total Dissolved Solids	370	mg/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	SO4	Sulfate	43.0	mg/L	12.5
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	CL	Chloride	87.2	mg/L	1.00
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	TSS	Tot. Suspended Solids	10	mg/L	2
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	SSC	Suspended Sediment Concentration	10.6	mg/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	HARD	Hardness as CaCO3	266	mg/l	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	COD	COD	5	mg/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	645	uS/cm	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	TEMP_FLD	Temperature (Field) Celsius	18.63	Deg C	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	PH_FLD	pH (Field)	8.37	S.U.	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	DO_FLD	Dissolved Oxygen (field) mg/L	8.84	mg/l	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	734	uS/cm	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$ICP	Aluminum	0.960	mg/L	0.348
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$ICP	Antimony	0.00	mg/L	0.006
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$ICP	Arsenic	0.00	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$ICP	Barium	0.0644	mg/L	0.003
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$ICP	Calcium	84.3	mg/L	0.066
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$ICP	Chromium	0.00	mg/L	0.006
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$ICP	Copper	0.00626	mg/L	0.006
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$ICP	Iron	1.76	mg/L	0.018
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$ICP	Lead	0.00	mg/L	0.006
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$ICP	Magnesium	23.8	mg/L	0.021
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$ICP	Manganese	0.155	mg/L	0.009
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$ICP	Nickel	0.00	mg/L	0.003
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$ICP	Selenium	0.0113	mg/L	0.009
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$ICP	Silver	0.00	mg/L	0.003
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$ICP	Strontium	0.281	mg/L	0.009
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$ICP	Thallium	0.00	mg/L	0.012
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$ICP	Tin	0.00	mg/L	0.006
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$ICP	Zinc	0.0125	mg/L	0.006
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	PB_FU	Lead by Furnace	2.09	ug/L	1.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	AS_FU	Arsenic by Furnace	2.02	ug/L	1.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	CU_FU	Copper by Furnace	2.7	ug/L	1
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	NO3NO2	Nitrate + Nitrite	1.85	mg/L	0.5
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	NO2	Nitrite as N	0.0140	mg/l	0.005
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	NO3	Nitrate as N (calculated)	1.8360	mg/l	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	Aldrin	AA	ug/L	0.1
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	Beta-BHC	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	Chlordane	AA	ug/L	0.10
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	Endrin	AA	ug/L	0.02
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	Surr: Decachlorobiphenyl	1.07	%	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$PEST	Surr: Tetrachloro-m-xylene	0.660	%	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624	Chloromethane	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624	Bromomethane	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624	Chloroethane	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624	Acrolein	0	ug/L	100.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624	Acrylonitrile	0	ug/L	100.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		Methylene Chloride	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		Chloroform	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		1,2-Dichloroethane-d4	52.1	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		Benzene	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		Trichloroethene	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		Bromoform	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		Toluene	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		Toluene-d8	48.4	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		Chlorobenzene	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		Ethylbenzene	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		Bromofluorobenzene	83.5	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		2-Propanone	0	ug/L	60
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		2-Butanone	0	ug/L	60
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624		Tetrahydrofuran	1	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624	2-chloroethoxy ethene	0	ug/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$624	TOTAL AMOUNT	378	ug/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	pyridine	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	2-Fluorophenol	47.2	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	aniline	0	ug/L	6.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	Phenol-d6	35.8	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	Phenol	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	2-Chlorophenol	0	ug/L	6.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	n-decane	0	ug/L	6.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	o-cresol	0	ug/L	6.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	acetophenone	0	ug/L	6.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	Hexachloroethane	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	Nitrobenzene-d5	84.1	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	p-cresol	0	ug/L	6.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	Nitrobenzene	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	Isophorone	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	Decafluorobiphenyl	80.8	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	2-Nitrophenol	0	ug/L	6.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	Naphthalene	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	1-Fluoronaphthalene	83.4	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	alpha terpineol	0	ug/L	6.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Acenaphthylene	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Acenaphthene	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		4-Nitrophenol	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Diethyl phthalate	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Fluorene	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		2,4,6-Tribromophenol	77.4	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Pentachlorophenol	0	ug/L	6.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		n-octadecane	0	ug/L	6.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Phenanthrene	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Anthracene	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		carbazole	0	ug/L	6.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Fluoranthene	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Benzidine	0	ug/L	6.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Pyrene	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Chrysene	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Hexachloroethane	0	ug/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Diethylphthalate	0	ug/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	3	ug/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		7-Oxabicyclo[4.1.0]heptane T	6	ug/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		2-Cyclohexen-1-one T	10	ug/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		2-Chlorocyclohexanol T	2	ug/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Bi-2-cyclohexen-1-yl T	1	ug/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Butane, 1,2,3,4-tetrachloro-1,1,2,3,4, T	1	ug/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Butanamide, N-acetyl-N-(4-hydroxyphenyl) T	1	ug/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Methylenecyclooctane T	1	ug/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Tetradecanoic acid T	2	ug/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		n-Hexadecanoic acid T	7	ug/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		9-Octadecenoic acid, (E)- T	1	ug/L	
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625		Octadecanoic acid T	3	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07239	LM16	Little Miami Watershed	16 (3261-02)	9/19/2012	11:30	\$625	TOTAL AMOUNT	746	ug/L	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	1	CFU/100mL	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	E-COLI	E.coli (Colilert)	10	MPN	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	TDS	Total Dissolved Solids	220	mg/L	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	SO4	Sulfate	14.6	mg/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	CL	Chloride	13.9	mg/L	1.00
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	TSS	Tot. Suspended Solids	4	mg/L	2
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	HARD	Hardness as CaCO3	146	mg/l	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	COD	COD	5	mg/L	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	233	uS/cm	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	21.39	Deg C	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	PH_FLD	pH (Field)	7.86	S.U.	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	9.09	mg/l	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	250	uS/cm	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$ICP	Antimony	0.00	mg/L	0.006
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$ICP	Barium	0.0348	mg/L	0.003
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$ICP	Calcium	29.4	mg/L	0.066
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$ICP	Chromium	0.00746	mg/L	0.006
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$ICP	Copper	0.00710	mg/L	0.006
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$ICP	Iron	0.0797	mg/L	0.018
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$ICP	Lead	0.00	mg/L	0.006
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$ICP	Magnesium	7.96	mg/L	0.021
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$ICP	Manganese	0.0513	mg/L	0.009
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$ICP	Nickel	0.00744	mg/L	0.003
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$ICP	Selenium	0.0125	mg/L	0.009
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$ICP	Silver	0.00	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$ICP	Strontium	0.0938	mg/L	0.009
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$ICP	Thallium	0.00	mg/L	0.012
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$ICP	Tin	0.00	mg/L	0.006
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$ICP	Zinc	0.00	mg/L	0.006
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	PB_FU	Lead by Furnace	0.07	ug/L	1.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	AS_FU	Arsenic by Furnace	2.21	ug/L	1.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	CU_FU	Copper by Furnace	AA	ug/L	1
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	TKN	Total Kjeldahl Nitrogen	0.5399	mg/L	0.5
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	NO2	Nitrite as N	0.0082	mg/l	0.005
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST	Aldrin	AA	ug/L	0.02
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST	Chlordane	AA	ug/L	0.10
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST	Endrin	AA	ug/L	0.02
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST		Toxaphene	AA	ug/L	1.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST		PCB 1016	AA	ug/L	0.5
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST		PCB 1221	AA	ug/L	0.5
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST		PCB 1232	AA	ug/L	0.5
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST		PCB 1242	AA	ug/L	0.5
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST		PCB 1248	AA	ug/L	0.5
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST		PCB 1254	AA	ug/L	0.5
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST		PCB 1260	AA	ug/L	0.5
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST		Surr: Decachlorobiphenyl	0.841	%	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$PEST		Surr: Tetrachloro-m-xylene	0.869	%	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Bromochloromethane	50.0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Chloromethane	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Vinyl Chloride	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Bromomethane	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Chloroethane	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Acrolein	0	ug/L	100.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Acrylonitrile	0	ug/L	100.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Methylene Chloride	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Chloroform	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		1,2-Dichloroethane-d4	52.5	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Benzene	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Trichloroethene	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Bromodichloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Bromoform	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Toluene	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Toluene-d8	51.9	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Chlorobenzene	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Ethylbenzene	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Bromofluorobenzene	75.0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		2-Propanone	0	ug/L	60
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		2-Butanone	0	ug/L	60
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		Tetrahydrofuran	0	ug/L	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$624		TOTAL AMOUNT	329	ug/L	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		pyridine	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		2-Fluorophenol	55.3	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		aniline	0	ug/L	6.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Phenol-d6	36.1	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Phenol	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		n-decane	0	ug/L	6.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		o-cresol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		acetophenone	0	ug/L	6.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Hexachloroethane	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Nitrobenzene-d5	82.9	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		p-cresol	0	ug/L	6.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Nitrobenzene	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Isophorone	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Decafluorobiphenyl	80.1	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Naphthalene	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		1-Fluoronaphthalene	82.8	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		alpha terpineol	0	ug/L	6.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Acenaphthylene	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Acenaphthene	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		4-Nitrophenol	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Diethyl phthalate	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Fluorene	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		2,4,6-Tribromophenol	85.1	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Pentachlorophenol	0	ug/L	6.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		n-octadecane	0	ug/L	6.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Phenanthrene	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Anthracene	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		carbazole	0	ug/L	6.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Fluoranthene	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Benzidine	0	ug/L	6.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Pyrene	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Chrysene	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Hexachloroethane	0	ug/L	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		2,3-Dichloroaniline	0	ug/L	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Diethylphthalate	0	ug/L	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		4-Methyl-4-nonadecene T	2	ug/L	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	3	ug/L	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		7-Oxabicyclo[4.1.0]heptane T	6	ug/L	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		2-Cyclohexen-1-one T	10	ug/L	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		2-Chlorocyclohexanol T	2	ug/L	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Butane, 1,2,3,4-tetrachloro-1,1,2,3,4, T	1	ug/L	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Atrazine T	1	ug/L	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		Metolachlor T	1	ug/L	
AC07329	LM25	Little Miami Watershed	25	9/20/2012	10:30	\$625		TOTAL AMOUNT	747	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	MF_CF		Fecal Coliform, Membrane Filter	50	CFU/100mL	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	E-COLI		E.coli (Colilert)	61	MPN	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	TDS		Total Dissolved Solids	240	mg/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	BOD		Biochemical Oxygen Demand	2	mg/L	2
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	SO4		Sulfate	17.8	mg/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	CL		Chloride	13.9	mg/L	1.00
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	TSS		Tot. Suspended Solids	14	mg/L	2
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	SSC		Suspended Sediment Concentration	8.6	mg/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	HARD		Hardness as CaCO3	142	mg/l	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	COD		COD	9	mg/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	CONDUCTIVITY-R		Relative Conductivity (uS/cm)	230	uS/cm	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	TEMP_FLD		Temperature (Field) Celsius	18.11	Deg C	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	PH_FLD		pH (Field)	8.01	S.U.	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	DO_FLD		Dissolved Oxygen (field) mg/L	10.23	mg/l	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	CONDUCTIVITY		Specific Conductivity (uS/cm)	265	uS/cm	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$ICP		Aluminum	0.00	mg/L	0.348
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$ICP		Antimony	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$ICP	Arsenic	0.00	mg/L	0.012
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$ICP	Barium	0.0287	mg/L	0.003
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$ICP	Calcium	32.4	mg/L	0.066
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$ICP	Chromium	0.00	mg/L	0.006
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$ICP	Copper	0.00702	mg/L	0.006
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$ICP	Iron	0.200	mg/L	0.018
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$ICP	Lead	0.00	mg/L	0.006
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$ICP	Magnesium	8.49	mg/L	0.021
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$ICP	Manganese	0.0616	mg/L	0.009
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$ICP	Nickel	0.00	mg/L	0.003
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$ICP	Selenium	0.0260	mg/L	0.009
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$ICP	Silver	0.00	mg/L	0.003
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$ICP	Strontium	0.103	mg/L	0.009
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$ICP	Thallium	0.00	mg/L	0.012
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$ICP	Tin	0.00	mg/L	0.006
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$ICP	Zinc	0.00	mg/L	0.006
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	PB_FU	Lead by Furnace	0.18	ug/L	1.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	AS_FU	Arsenic by Furnace	2.25	ug/L	1.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	CU_FU	Copper by Furnace	1.7	ug/L	1
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	NH3	Ammonia as N	0	mg/L	0.5
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	NO2	Nitrite as N	0.0100	mg/l	0.005
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	Aldrin	AA	ug/L	0.02
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	Alpha-BHC	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	Chlordane	AA	ug/L	0.10
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	Dieldrin	AA	ug/L	0.02
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	Endrin	AA	ug/L	0.02
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	Heptachlor	AA	ug/L	0.02
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	Toxaphene	AA	ug/L	1.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	PCB 1016	AA	ug/L	0.5
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	PCB 1221	AA	ug/L	0.5
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	PCB 1232	AA	ug/L	0.5
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	PCB 1242	AA	ug/L	0.5
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	PCB 1248	AA	ug/L	0.5
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	PCB 1254	AA	ug/L	0.5
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	PCB 1260	AA	ug/L	0.5
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	Surr: Decachlorobiphenyl	0.965	%	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$PEST	Surr: Tetrachloro-m-xylene	0.768	%	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624	Chloromethane	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624	Vinyl Chloride	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624	Bromomethane	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624	Chloroethane	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624	Acrolein	0	ug/L	100.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624	1,1-Dichloroethene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		Acrylonitrile	0	ug/L	100.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		Methylene Chloride	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		Chloroform	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		1,2-Dichloroethane-d4	54.0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		Benzene	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		Trichloroethene	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		Bromodichloromethane	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		Dibromochloromethane	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		Bromoform	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		Tetrachloroethene	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		Toluene	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		Toluene-d8	48.6	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		Chlorobenzene	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		Ethylbenzene	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		Bromofluorobenzene	68.2	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		2-Propanone	0	ug/L	60
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		2-Butanone	0	ug/L	60

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		Tetrahydrofuran	0	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		2-chloroethoxy ethene	0	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$624		TOTAL AMOUNT	321	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		pyridine	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		2-Fluorophenol	40.9	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		aniline	0	ug/L	6.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Phenol-d6	27.9	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Phenol	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		2-Chlorophenol	0	ug/L	6.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		n-decane	0	ug/L	6.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		o-cresol	0	ug/L	6.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		acetophenone	0	ug/L	6.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Hexachloroethane	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Nitrobenzene-d5	64.5	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		p-cresol	0	ug/L	6.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Nitrobenzene	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Isophorone	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Decafluorobiphenyl	60.3	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		2-Nitrophenol	0	ug/L	6.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Naphthalene	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		1-Fluoronaphthalene	65.2	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		alpha terpineol	0	ug/L	6.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Hexachlorobutadiene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Acenaphthylene	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Acenaphthene	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		4-Nitrophenol	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Diethyl phthalate	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Fluorene	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		2,4,6-Tribromophenol	80.7	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Pentachlorophenol	0	ug/L	6.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		n-octadecane	0	ug/L	6.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Phenanthrene	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Anthracene	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		carbazole	0	ug/L	6.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Fluoranthene	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Benzidine	0	ug/L	6.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Pyrene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Chrysene	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Perylene-D12	50.0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Hexachloroethane	0	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		2,3-Dichloroaniline	0	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Diethylphthalate	0	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Benzo[ghi]perylene	0	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Heptane, 2,4-dimethyl- T	2	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	4	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		7-Oxabicyclo[4.1.0]heptane T	4	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		2-Cyclohexen-1-one T	8	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Decane, 2,2-dimethyl- T	4	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Nonane, 3-methyl-5-propyl- T	5	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		2-Chlorocyclohexanol T	2	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Hexadecane, 7,9-dimethyl- T	9	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Decane, 3,7-dimethyl- T	2	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Dodecane, 3-methyl- T	3	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625		Pentane, 3,3-dimethyl- T	3	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625	Phenol, bis(1,1-dimethylethyl)- T	2	ug/L	
AC07330	LM26	Little Miami Watershed	26	9/20/2012	10:45	\$625	TOTAL AMOUNT	688	ug/L	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	280	CFU/100mL	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	E-COLI	E.coli (Colilert)	291	MPN	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	TDS	Total Dissolved Solids	230	mg/L	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	SO4	Sulfate	18.1	mg/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	CL	Chloride	14.2	mg/L	1.00
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	TSS	Tot. Suspended Solids	10	mg/L	2
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	SSC	Suspended Sediment Concentration	9.0	mg/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	HARD	Hardness as CaCO3	168	mg/l	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	COD	COD	14	mg/L	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	230	uS/cm	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	16.86	Deg C	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	PH_FLD	pH (Field)	7.91	S.U.	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	10.29	mg/l	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	272	uS/cm	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$ICP	Antimony	0.00	mg/L	0.006
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$ICP	Barium	0.0283	mg/L	0.003
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$ICP	Calcium	33.0	mg/L	0.066
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$ICP	Chromium	0.00	mg/L	0.006
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$ICP	Copper	0.00779	mg/L	0.006
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$ICP	Iron	0.406	mg/L	0.018
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$ICP	Lead	0.00	mg/L	0.006
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$ICP	Magnesium	8.47	mg/L	0.021
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$ICP	Manganese	0.0719	mg/L	0.009
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$ICP	Nickel	0.00	mg/L	0.003
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$ICP	Selenium	0.0146	mg/L	0.009



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$ICP	Silver	0.00	mg/L	0.003
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$ICP	Strontium	0.106	mg/L	0.009
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$ICP	Thallium	0.00	mg/L	0.012
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$ICP	Tin	0.00	mg/L	0.006
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$ICP	Zinc	0.00	mg/L	0.006
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	PB_FU	Lead by Furnace	0.47	ug/L	1.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	AS_FU	Arsenic by Furnace	2.18	ug/L	1.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	CU_FU	Copper by Furnace	2.0	ug/L	1
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	TKN	Total Kjeldahl Nitrogen	0.500	mg/L	0.5
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	NO2	Nitrite as N	0.0119	mg/l	0.005
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	Aldrin	AA	ug/L	0.02
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	Chlordane	AA	ug/L	0.10
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	Endrin	AA	ug/L	0.02
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	Heptachlor	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	Toxaphene	AA	ug/L	1.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	Surr: Decachlorobiphenyl	0.895	%	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$PEST	Surr: Tetrachloro-m-xylene	0.804	%	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624	Chloromethane	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624	Bromomethane	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624	Chloroethane	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624	Acrolein	0	ug/L	100.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624	Acrylonitrile	0	ug/L	100.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624	Methylene Chloride	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624	Chloroform	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624	1,2-Dichloroethane-d4	50.5	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624	Benzene	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624	Trichloroethene	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624	1,2-Dichloropropane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624		Bromodichloromethane	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624		Bromoform	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624		Toluene	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624		Toluene-d8	79.7	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624		Chlorobenzene	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624		Ethylbenzene	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624		Bromofluorobenzene	77.2	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624		2-Propanone	0	ug/L	60
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624		2-Butanone	0	ug/L	60
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624		Tetrahydrofuran	0	ug/L	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624		2-chloroethoxy ethene	0	ug/L	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$624		TOTAL AMOUNT	357	ug/L	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		pyridine	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		2-Fluorophenol	18.8	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		aniline	0	ug/L	6.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Phenol-d6	12.4	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Phenol	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		2-Chlorophenol	0	ug/L	6.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		n-decane	0	ug/L	6.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		o-cresol	0	ug/L	6.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		acetophenone	0	ug/L	6.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Hexachloroethane	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Nitrobenzene-d5	28.3	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		p-cresol	0	ug/L	6.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Nitrobenzene	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Isophorone	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Decafluorobiphenyl	24.3	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		2-Nitrophenol	0	ug/L	6.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Naphthalene	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		1-Fluoronaphthalene	25.4	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		alpha terpineol	0	ug/L	6.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Acenaphthylene	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Acenaphthene	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		4-Nitrophenol	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Diethyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Fluorene	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		2,4,6-Tribromophenol	166.6	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Pentachlorophenol	0	ug/L	6.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		n-octadecane	0	ug/L	6.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Phenanthrene	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Anthracene	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		carbazole	0	ug/L	6.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Fluoranthene	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Benzidine	0	ug/L	6.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Pyrene	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Chrysene	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Perylene-D12	50.0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Hexachloroethane	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		2,3-Dichloroaniline	0	ug/L	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Diethylphthalate	0	ug/L	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Benzo[ghi]perylene	0	ug/L	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		1,1-Dimethyl-1-silacyclo-3-pentene T	2	ug/L	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Ethane, 1,1,2-trichloro- T	3	ug/L	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		7-Oxabicyclo[4.1.0]heptane T	2	ug/L	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Ethane, 1,1,2,2-tetrachloro- T	3	ug/L	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		2-Cyclohexen-1-one T	4	ug/L	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		n-Hexadecanoic acid T	3	ug/L	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		Pentadecanoic acid T	1	ug/L	
AC07331	LM27	Little Miami Watershed	27	9/20/2012	11:00	\$625		TOTAL AMOUNT	594	ug/L	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	MF_CF		Fecal Coliform, Membrane Filter	390	CFU/100mL	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	E-COLI		E.coli (Colilert)	461	MPN	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	TDS		Total Dissolved Solids	270	mg/L	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	BOD		Biochemical Oxygen Demand	1	mg/L	2
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	SO4		Sulfate	18.7	mg/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	CL		Chloride	16.1	mg/L	1.00
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	TSS		Tot. Suspended Solids	6	mg/L	2
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	SSC		Suspended Sediment Concentration	9.8	mg/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	HARD		Hardness as CaCO3	168	mg/l	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	COD		COD	7	mg/L	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	CONDUCTIVITY-R		Relative Conductivity (uS/cm)	239	uS/cm	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	TEMP_FLD		Temperature (Field) Celsius	17.20	Deg C	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	PH_FLD		pH (Field)	8.39	S.U.	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	DO_FLD		Dissolved Oxygen (field) mg/L	10.88	mg/l	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	CONDUCTIVITY		Specific Conductivity (uS/cm)	204	uS/cm	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$ICP		Aluminum	0.00	mg/L	0.348
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$ICP		Antimony	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$ICP	Arsenic	0.00	mg/L	0.012
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$ICP	Barium	0.0281	mg/L	0.003
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$ICP	Calcium	36.1	mg/L	0.066
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$ICP	Chromium	0.00	mg/L	0.006
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$ICP	Copper	0.00	mg/L	0.006
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$ICP	Iron	0.322	mg/L	0.018
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$ICP	Lead	0.00	mg/L	0.006
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$ICP	Magnesium	9.10	mg/L	0.021
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$ICP	Manganese	0.0650	mg/L	0.009
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$ICP	Nickel	0.00317	mg/L	0.003
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$ICP	Selenium	0.0114	mg/L	0.009
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$ICP	Silver	0.00	mg/L	0.003
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$ICP	Strontium	0.110	mg/L	0.009
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$ICP	Thallium	0.0186	mg/L	0.012
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$ICP	Tin	0.00	mg/L	0.006
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$ICP	Zinc	0.00	mg/L	0.006
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	PB_FU	Lead by Furnace	0.35	ug/L	1.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	AS_FU	Arsenic by Furnace	1.88	ug/L	1.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	CU_FU	Copper by Furnace	AA	ug/L	1
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	NH3	Ammonia as N	0	mg/L	0.5
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	TKN	Total Kjeldahl Nitrogen	0.5290	mg/L	0.5
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	NO2	Nitrite as N	0.0142	mg/l	0.005
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	Aldrin	AA	ug/L	0.02
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	Alpha-BHC	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	Chlordane	AA	ug/L	0.10
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	Dieldrin	AA	ug/L	0.02
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	Endrin	AA	ug/L	0.02
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	Heptachlor	AA	ug/L	0.02
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	Toxaphene	AA	ug/L	1.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	PCB 1016	AA	ug/L	0.5
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	PCB 1221	AA	ug/L	0.5
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	PCB 1232	AA	ug/L	0.5
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	PCB 1242	AA	ug/L	0.5
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	PCB 1248	AA	ug/L	0.5
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	PCB 1254	AA	ug/L	0.5
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	PCB 1260	AA	ug/L	0.5
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	Surr: Decachlorobiphenyl	0.999	%	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$PEST	Surr: Tetrachloro-m-xylene	0.906	%	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624	Chloromethane	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624	Vinyl Chloride	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624	Bromomethane	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624	Chloroethane	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624	Acrolein	0	ug/L	100.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624	1,1-Dichloroethene	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		Acrylonitrile	0	ug/L	100.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		Methylene Chloride	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		Chloroform	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		1,2-Dichloroethane-d4	51.7	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		Benzene	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		Trichloroethene	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		Bromodichloromethane	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		Dibromochloromethane	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		Bromoform	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		Tetrachloroethene	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		Toluene	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		Toluene-d8	50.7	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		Chlorobenzene	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		Ethylbenzene	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		Bromofluorobenzene	82.7	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		2-Propanone	0	ug/L	60
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		2-Butanone	0	ug/L	60

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		Tetrahydrofuran	0	ug/L	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		2-chloroethoxy ethene	0	ug/L	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$624		TOTAL AMOUNT	335	ug/L	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		pyridine	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		2-Fluorophenol	27.1	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		aniline	0	ug/L	6.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Phenol-d6	19.0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Phenol	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		2-Chlorophenol	0	ug/L	6.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		n-decane	0	ug/L	6.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		o-cresol	0	ug/L	6.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		acetophenone	0	ug/L	6.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Hexachloroethane	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Nitrobenzene-d5	44.8	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		p-cresol	0	ug/L	6.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Nitrobenzene	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Isophorone	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Decafluorobiphenyl	42.1	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		2-Nitrophenol	0	ug/L	6.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Naphthalene	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		1-Fluoronaphthalene	44.6	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		alpha terpineol	0	ug/L	6.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Hexachlorobutadiene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Acenaphthylene	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Acenaphthene	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		4-Nitrophenol	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Diethyl phthalate	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Fluorene	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		2,4,6-Tribromophenol	66.6	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Pentachlorophenol	0	ug/L	6.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		n-octadecane	0	ug/L	6.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Phenanthrene	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Anthracene	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		carbazole	0	ug/L	6.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Fluoranthene	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Benzidine	0	ug/L	6.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Pyrene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Chrysene	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Perylene-D12	50.0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Hexachloroethane	0	ug/L	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		2,3-Dichloroaniline	0	ug/L	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Diethylphthalate	0	ug/L	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Benzo[ghi]perylene	0	ug/L	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		1-Propenylaziridine T	3	ug/L	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		2-Cyclohexen-1-one T	6	ug/L	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Thiophene, 2-ethyltetrahydro- T	1	ug/L	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Tetradecanoic acid T	1	ug/L	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		n-Hexadecanoic acid T	8	ug/L	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		9-Octadecenoic acid, (E)- T	1	ug/L	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		Octadecanoic acid T	4	ug/L	
AC07332	LM28	Little Miami Watershed	28	9/20/2012	11:15	\$625		TOTAL AMOUNT	568	ug/L	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30		MF_CF	Fecal Coliform, Membrane Filter	150	CFU/100mL	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30		E-COLI	E.coli (Colilert)	179	MPN	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30		TDS	Total Dissolved Solids	290	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	SO4	Sulfate	24.0	mg/L	1.00
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	CL	Chloride	24.9	mg/L	1.00
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	TSS	Tot. Suspended Solids	16	mg/L	2
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	SSC	Suspended Sediment Concentration	6.5	mg/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	HARD	Hardness as CaCO3	184	mg/l	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	COD	COD	5	mg/L	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	311	uS/cm	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	TEMP_FLD	Temperature (Field) Celsius	17.61	Deg C	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	PH_FLD	pH (Field)	7.64	S.U.	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	DO_FLD	Dissolved Oxygen (field) mg/L	9.60	mg/l	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	362	uS/cm	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$ICP	Aluminum	0.426	mg/L	0.348
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$ICP	Antimony	0.00	mg/L	0.006
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$ICP	Barium	0.0302	mg/L	0.003
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$ICP	Calcium	42.3	mg/L	0.066
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$ICP	Chromium	0.00	mg/L	0.006
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$ICP	Copper	0.00661	mg/L	0.006
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$ICP	Iron	0.746	mg/L	0.018
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$ICP	Lead	0.00	mg/L	0.006
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$ICP	Magnesium	10.0	mg/L	0.021
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$ICP	Manganese	0.0798	mg/L	0.009
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$ICP	Nickel	0.00394	mg/L	0.003
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$ICP	Selenium	0.0171	mg/L	0.009
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$ICP	Silver	0.00	mg/L	0.003
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$ICP	Strontium	0.134	mg/L	0.009
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$ICP	Thallium	0.0258	mg/L	0.012
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$ICP	Tin	0.00	mg/L	0.006
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$ICP	Vanadium	0.00	mg/L	0.018

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$ICP	Zinc	0.0105	mg/L	0.006
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	PB_FU	Lead by Furnace	0.77	ug/L	1.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	AS_FU	Arsenic by Furnace	2.03	ug/L	1.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	CU_FU	Copper by Furnace	2.0	ug/L	1
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	NO3NO2	Nitrate + Nitrite	2.86	mg/L	0.5
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	TKN	Total Kjeldahl Nitrogen	0.7880	mg/L	0.5
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	NO2	Nitrite as N	0.0182	mg/l	0.005
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	NO3	Nitrate as N (calculated)	2.8418	mg/l	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	Aldrin	AA	ug/L	0.02
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	Chlordane	AA	ug/L	0.10
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	Endrin	AA	ug/L	0.02
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	PCB 1232	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	Surr: Decachlorobiphenyl	0.996	%	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$PEST	Surr: Tetrachloro-m-xylene	0.851	%	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	Chloromethane	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	Bromomethane	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	Chloroethane	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	Acrolein	0	ug/L	100.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	Acrylonitrile	0	ug/L	100.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	Methylene Chloride	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	Chloroform	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	1,2-Dichloroethane-d4	50.5	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	Benzene	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	Trichloroethene	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	Bromodichloromethane	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624	Dibromochloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624		Bromoform	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624		Toluene	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624		Toluene-d8	53.1	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624		Chlorobenzene	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624		Ethylbenzene	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624		Bromofluorobenzene	87.0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624		2-Propanone	0	ug/L	60
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624		2-Butanone	0	ug/L	60
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624		Tetrahydrofuran	0	ug/L	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$624		TOTAL AMOUNT	341	ug/L	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		pyridine	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		2-Fluorophenol	37.8	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		aniline	0	ug/L	6.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Phenol-d6	26.3	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Phenol	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		n-decane	0	ug/L	6.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		o-cresol	0	ug/L	6.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		acetophenone	0	ug/L	6.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Hexachloroethane	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Naphthalene-D8	50.0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Nitrobenzene-d5	58.9	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		p-cresol	0	ug/L	6.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Nitrobenzene	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Isophorone	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Decafluorobiphenyl	44.6	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Naphthalene	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		1-Fluoronaphthalene	53.8	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		alpha terpineol	0	ug/L	6.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Acenaphthylene	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Acenaphthene	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		4-Nitrophenol	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Diethyl phthalate	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Fluorene	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		n-nitrosodiphenylamine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		2,4,6-Tribromophenol	77.0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Pentachlorophenol	0	ug/L	6.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		n-octadecane	0	ug/L	6.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Phenanthrene	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Anthracene	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		carbazole	0	ug/L	6.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Fluoranthene	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Benzidine	0	ug/L	6.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Pyrene	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Chrysene	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Hexachloroethane	0	ug/L	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Diethylphthalate	0	ug/L	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Benzo[k]fluoranthene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		Bicyclo[2.2.2]octanone, 4-methoxy-1-me T	2	ug/L	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	2	ug/L	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		1-Propenylaziridine T	4	ug/L	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		2-Cyclohexen-1-one T	7	ug/L	
AC07333	LM29	Little Miami Watershed	29	9/20/2012	11:30	\$625		TOTAL AMOUNT	614	ug/L	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		MF_CF	Fecal Coliform, Membrane Filter	107	CFU/100mL	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		E-COLI	E.coli (Colilert)	121	MPN	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		TDS	Total Dissolved Solids	270	mg/L	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		BOD	Biochemical Oxygen Demand	1	mg/L	2
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		SO4	Sulfate	25.9	mg/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		CL	Chloride	25.8	mg/L	1.00
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		TSS	Tot. Suspended Solids	10	mg/L	2
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		SSC	Suspended Sediment Concentration	9.0	mg/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		HARD	Hardness as CaCO3	204	mg/l	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		COD	COD	9	mg/L	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	323	uS/cm	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		TEMP_FLD	Temperature (Field) Celsius	18.26	Deg C	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		PH_FLD	pH (Field)	8.07	S.U.	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		DO_FLD	Dissolved Oxygen (field) mg/L	10.58	mg/l	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		CONDUCTIVITY	Specific Conductivity (uS/cm)	371	uS/cm	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		\$ICP	Aluminum	0.00	mg/L	0.348
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		\$ICP	Antimony	0.00	mg/L	0.006
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		\$ICP	Arsenic	0.00	mg/L	0.012
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		\$ICP	Barium	0.0298	mg/L	0.003
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		\$ICP	Beryllium	0.00	mg/L	0.009
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		\$ICP	Cadmium	0.00	mg/L	0.012
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		\$ICP	Calcium	43.6	mg/L	0.066
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		\$ICP	Chromium	0.00	mg/L	0.006
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		\$ICP	Cobalt	0.00	mg/L	0.006
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45		\$ICP	Copper	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$ICP	Iron	0.357	mg/L	0.018
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$ICP	Lead	0.00	mg/L	0.006
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$ICP	Magnesium	10.1	mg/L	0.021
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$ICP	Manganese	0.0744	mg/L	0.009
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$ICP	Nickel	0.00379	mg/L	0.003
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$ICP	Selenium	0.00	mg/L	0.009
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$ICP	Silver	0.00	mg/L	0.003
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$ICP	Strontium	0.139	mg/L	0.009
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$ICP	Thallium	0.0202	mg/L	0.012
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$ICP	Tin	0.00	mg/L	0.006
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$ICP	Zinc	0.00724	mg/L	0.006
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	PB_FU	Lead by Furnace	0.39	ug/L	1.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	AS_FU	Arsenic by Furnace	2.04	ug/L	1.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	CU_FU	Copper by Furnace	1.9	ug/L	1
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	NH3	Ammonia as N	0	mg/L	0.5
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	NO3NO2	Nitrate + Nitrite	2.74	mg/L	0.5
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	TKN	Total Kjeldahl Nitrogen	0.6893	mg/L	0.5
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	NO2	Nitrite as N	0.0173	mg/l	0.005
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	NO3	Nitrate as N (calculated)	2.7227	mg/l	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	Aldrin	AA	ug/L	0.02
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	Chlordane	AA	ug/L	0.10
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	Dieldrin	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	Endrin	AA	ug/L	0.02
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	Heptachlor	AA	ug/L	0.02
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	Toxaphene	AA	ug/L	1.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	PCB 1016	AA	ug/L	0.5
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	PCB 1221	AA	ug/L	0.5
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	PCB 1232	AA	ug/L	0.5
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	PCB 1242	AA	ug/L	0.5
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	PCB 1248	AA	ug/L	0.5
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	PCB 1254	AA	ug/L	0.5
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	PCB 1260	AA	ug/L	0.5
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	Surr: Decachlorobiphenyl	0.784	%	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$PEST	Surr: Tetrachloro-m-xylene	0.876	%	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624	Chloromethane	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624	Vinyl Chloride	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624	Bromomethane	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624	Chloroethane	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624	Acrolein	0	ug/L	100.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624	Acrylonitrile	0	ug/L	100.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624	Methylene Chloride	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624	Chloroform	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624	1,2-Dichloroethane-d4	53.5	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		Benzene	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		Trichloroethene	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		Bromodichloromethane	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		Dibromochloromethane	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		Bromoform	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		Tetrachloroethene	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		Toluene	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		Toluene-d8	48.4	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		Chlorobenzene	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		Ethylbenzene	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		Bromofluorobenzene	73.6	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		2-Propanone	0	ug/L	60
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		2-Butanone	0	ug/L	60
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		Tetrahydrofuran	0	ug/L	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		2-chloroethoxy ethene	0	ug/L	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$624		TOTAL AMOUNT	325	ug/L	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		pyridine	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		2-Fluorophenol	34.8	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		aniline	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Phenol-d6	23.4	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Phenol	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		2-Chlorophenol	0	ug/L	6.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		n-decane	0	ug/L	6.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		o-cresol	0	ug/L	6.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		acetophenone	0	ug/L	6.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Hexachloroethane	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Nitrobenzene-d5	56.9	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		p-cresol	0	ug/L	6.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Nitrobenzene	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Isophorone	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Decafluorobiphenyl	47.8	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		2-Nitrophenol	0	ug/L	6.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Naphthalene	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		1-Fluoronaphthalene	54.6	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		alpha terpineol	0	ug/L	6.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Acenaphthylene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Acenaphthene	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		4-Nitrophenol	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Diethyl phthalate	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Fluorene	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		2,4,6-Tribromophenol	78.4	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Pentachlorophenol	0	ug/L	6.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		n-octadecane	0	ug/L	6.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Phenanthrene	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Anthracene	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		carbazole	0	ug/L	6.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Fluoranthene	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Benzidine	0	ug/L	6.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Pyrene	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Chrysene	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Perylene-D12	50.0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Benzo(b)fluoranthene	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Hexachloroethane	0	ug/L	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		2,3-Dichloroaniline	0	ug/L	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Diethylphthalate	0	ug/L	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Benzo[ghi]perylene	0	ug/L	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	3	ug/L	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		7-Oxabicyclo[4.1.0]heptane T	4	ug/L	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		2-Cyclohexen-1-one T	7	ug/L	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		2-Chlorocyclohexanol T	1	ug/L	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Thiophane, propyl- T	1	ug/L	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		n-Hexadecanoic acid T	1	ug/L	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		Decanedioic acid, dibutyl ester T	1	ug/L	
AC07334	LM30	Little Miami Watershed	30	9/20/2012	11:45	\$625		TOTAL AMOUNT	614	ug/L	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05		MF_CF	Fecal Coliform, Membrane Filter	79	CFU/100mL	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05		E-COLI	E.coli (Colilert)	64	MPN	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05		TDS	Total Dissolved Solids	300	mg/L	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05		SO4	Sulfate	27.6	mg/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05		CL	Chloride	25.7	mg/L	1.00
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05		TSS	Tot. Suspended Solids	6	mg/L	2
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05		SSC	Suspended Sediment Concentration	9.8	mg/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05		HARD	Hardness as CaCO3	210	mg/l	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05		COD	COD	8	mg/L	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	343	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	TEMP_FLD	Temperature (Field) Celsius	18.28	Deg C	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	PH_FLD	pH (Field)	7.87	S.U.	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	DO_FLD	Dissolved Oxygen (field) mg/L	11.32	mg/l	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	CONDUCTIVITY	Specific Conductivity (uS/cm)	3.94	uS/cm	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$ICP	Aluminum	0.00	mg/L	0.348
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$ICP	Antimony	0.00	mg/L	0.006
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$ICP	Arsenic	0.00	mg/L	0.012
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$ICP	Barium	0.0325	mg/L	0.003
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$ICP	Beryllium	0.00	mg/L	0.009
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$ICP	Cadmium	0.00	mg/L	0.012
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$ICP	Calcium	50.2	mg/L	0.066
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$ICP	Chromium	0.00	mg/L	0.006
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$ICP	Cobalt	0.00	mg/L	0.006
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$ICP	Copper	0.00	mg/L	0.006
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$ICP	Iron	0.428	mg/L	0.018
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$ICP	Lead	0.00	mg/L	0.006
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$ICP	Magnesium	11.1	mg/L	0.021
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$ICP	Manganese	0.0673	mg/L	0.009
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$ICP	Nickel	0.00398	mg/L	0.003
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$ICP	Selenium	0.0168	mg/L	0.009
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$ICP	Silver	0.00	mg/L	0.003
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$ICP	Strontium	0.153	mg/L	0.009
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$ICP	Thallium	0.0164	mg/L	0.012
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$ICP	Tin	0.00	mg/L	0.006
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$ICP	Vanadium	0.00	mg/L	0.018
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$ICP	Zinc	0.0101	mg/L	0.006
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	PB_FU	Lead by Furnace	0.42	ug/L	1.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	AS_FU	Arsenic by Furnace	1.76	ug/L	1.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	CU_FU	Copper by Furnace	2.0	ug/L	1
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	NH3	Ammonia as N	0	mg/L	0.5
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	NO3NO2	Nitrate + Nitrite	2.25	mg/L	0.5
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	NO2	Nitrite as N	0.0163	mg/l	0.005
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	NO3	Nitrate as N (calculated)	2.2337	mg/l	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	Aldrin	AA	ug/L	0.02
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	Chlordane	AA	ug/L	0.02
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	4,4-DDD	AA	ug/L	0.03
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	4,4-DDT	AA	ug/L	0.02
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	Dieldrin	AA	ug/L	0.02
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	Endosulfan sulfate	AA	ug/L	0.5
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	Endrin	AA	ug/L	0.02
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	Heptachlor	AA	ug/L	0.02
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	Toxaphene	AA	ug/L	1
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	PCB 1016	AA	ug/L	0.5
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	PCB 1221	AA	ug/L	0.5
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	PCB 1232	AA	ug/L	0.5
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	PCB 1242	AA	ug/L	0.5
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	PCB 1248	AA	ug/L	0.5
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	PCB 1254	AA	ug/L	0.5
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	PCB 1260	AA	ug/L	0.5
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	Surr: Decachlorobiphenyl	0	%	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$PEST	Surr: Tetrachloro-m-xylene	0	%	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624	Chloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		Vinyl Chloride	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		Bromomethane	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		Chloroethane	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		Acrolein	0	ug/L	100.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		Acrylonitrile	0	ug/L	100.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		Methylene Chloride	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		Chloroform	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		1,2-Dichloroethane-d4	52.2	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		Benzene	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		Trichloroethene	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		Bromodichloromethane	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		Dibromochloromethane	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		Bromoform	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		Tetrachloroethene	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		Toluene	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		Toluene-d8	49.5	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		Chlorobenzene	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		Ethylbenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		Bromofluorobenzene	71.7	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		2-Propanone	0	ug/L	60
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		2-Butanone	0	ug/L	60
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		Tetrahydrofuran	0	ug/L	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		2-chloroethoxy ethene	0	ug/L	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$624		TOTAL AMOUNT	323	ug/L	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		pyridine	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		2-Fluorophenol	27.9	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		aniline	0	ug/L	6.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Phenol-d6	18.4	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Phenol	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		2-Chlorophenol	0	ug/L	6.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		n-decane	0	ug/L	6.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		o-cresol	0	ug/L	6.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		acetophenone	0	ug/L	6.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Hexachloroethane	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Nitrobenzene-d5	41.9	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		p-cresol	0	ug/L	6.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Nitrobenzene	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Isophorone	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Decafluorobiphenyl	27.5	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		2-Nitrophenol	0	ug/L	6.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Naphthalene	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		1-Fluoronaphthalene	35.0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		alpha terpineol	0	ug/L	6.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Acenaphthylene	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Acenaphthene	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		4-Nitrophenol	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Diethyl phthalate	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Fluorene	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		2,4,6-Tribromophenol	41.5	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Pentachlorophenol	0	ug/L	6.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		n-octadecane	0	ug/L	6.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Phenanthrene	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Anthracene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		carbazole	0	ug/L	6.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Fluoranthene	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Benzidine	0	ug/L	6.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Pyrene	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Chrysene	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Perylene-D12	50.0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Hexachloroethane	0	ug/L	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		2,3-Dichloroaniline	0	ug/L	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Diethylphthalate	0	ug/L	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		Benzo[ghi]perylene	0	ug/L	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		DFTPP	0	ug/L	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		5-Isobutyramido-2-methyl pyrimidine T	1	ug/L	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	2	ug/L	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		7-Oxabicyclo[4.1.0]heptane T	3	ug/L	
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625		2-Cyclohexen-1-one T	5	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07335	LM31	Little Miami Watershed	31	9/20/2012	12:05	\$625	TOTAL AMOUNT	504	ug/L	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	MF_CF	Fecal Coliform, Membrane Filter	71	CFU/100mL	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	E-COLI	E.coli (Colilert)	107	MPN	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	TDS	Total Dissolved Solids	350	mg/L	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	BOD	Biochemical Oxygen Demand	1	mg/L	2
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	SO4	Sulfate	39.5	mg/L	12.5
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	CL	Chloride	43.0	mg/L	1.00
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	TSS	Tot. Suspended Solids	22	mg/L	2
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	SSC	Suspended Sediment Concentration	10.8	mg/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	HARD	Hardness as CaCO3	224	mg/l	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	COD	COD	16	mg/L	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	433	uS/cm	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	TEMP_FLD	Temperature (Field) Celsius	17.83	Deg C	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	PH_FLD	pH (Field)	7.60	S.U.	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	DO_FLD	Dissolved Oxygen (field) mg/L	10.92	mg/l	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	502	uS/cm	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$ICP	Aluminum	0.00	mg/L	0.348
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$ICP	Antimony	0.00	mg/L	0.006
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$ICP	Arsenic	0.00	mg/L	0.012
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$ICP	Barium	0.0327	mg/L	0.003
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$ICP	Calcium	55.9	mg/L	0.066
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$ICP	Chromium	0.00	mg/L	0.006
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$ICP	Copper	0.00667	mg/L	0.006
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$ICP	Iron	0.412	mg/L	0.018
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$ICP	Lead	0.00	mg/L	0.006
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$ICP	Magnesium	12.4	mg/L	0.021
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$ICP	Manganese	0.0638	mg/L	0.009
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$ICP	Nickel	0.00379	mg/L	0.003
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$ICP	Selenium	0.0218	mg/L	0.009
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$ICP	Silver	0.00	mg/L	0.003



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$ICP	Strontium	0.193	mg/L	0.009
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$ICP	Thallium	0.0181	mg/L	0.012
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$ICP	Tin	0.00	mg/L	0.006
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$ICP	Zinc	0.0134	mg/L	0.006
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	PB_FU	Lead by Furnace	0.45	ug/L	1.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	AS_FU	Arsenic by Furnace	1.69	ug/L	1.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	CU_FU	Copper by Furnace	2.8	ug/L	1
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	NH3	Ammonia as N	0	mg/L	0.5
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	NO3NO2	Nitrate + Nitrite	3.37	mg/L	0.5
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	TKP	Total Kjeldahl Phosphorus	0.6850	mg/L	0.5
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	NO2	Nitrite as N	0.0178	mg/l	0.005
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	NO3	Nitrate as N (calculated)	3.3522	mg/l	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	Aldrin	AA	ug/L	0.02
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	Chlordane	AA	ug/L	0.10
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	Dieldrin	AA	ug/L	0.02
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	Endrin	AA	ug/L	0.02
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	Heptachlor	AA	ug/L	0.02
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	Heptachlor epoxide	AA	ug/L	0.05

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	Toxaphene	AA	ug/L	1.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	PCB 1016	AA	ug/L	0.5
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	PCB 1221	AA	ug/L	0.5
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	PCB 1232	AA	ug/L	0.5
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	PCB 1242	AA	ug/L	0.5
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	PCB 1248	AA	ug/L	0.5
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	PCB 1254	AA	ug/L	0.5
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	PCB 1260	AA	ug/L	0.5
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	Surr: Decachlorobiphenyl	0.832	%	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$PEST	Surr: Tetrachloro-m-xylene	0.971	%	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624	Chloromethane	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624	Vinyl Chloride	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624	Bromomethane	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624	Chloroethane	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624	Acrolein	0	ug/L	100.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624	Acrylonitrile	0	ug/L	100.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624	Methylene Chloride	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624	Chloroform	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624	1,2-Dichloroethane-d4	49.4	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624	Benzene	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624	Trichloroethene	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624	Bromodichloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624		Dibromochloromethane	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624		Bromoform	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624		Tetrachloroethene	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624		Toluene	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624		Toluene-d8	62.8	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624		Chlorobenzene	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624		Ethylbenzene	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624		Bromofluorobenzene	92.2	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624		2-Propanone	0	ug/L	60
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624		2-Butanone	0	ug/L	60
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624		Tetrahydrofuran	0	ug/L	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624		2-chloroethoxy ethene	0	ug/L	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$624		TOTAL AMOUNT	354	ug/L	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		pyridine	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		2-Fluorophenol	43.3	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		aniline	0	ug/L	6.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Phenol-d6	28.9	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Phenol	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		2-Chlorophenol	0	ug/L	6.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		n-decane	0	ug/L	6.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		o-cresol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		acetophenone	0	ug/L	6.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Hexachloroethane	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Nitrobenzene-d5	65.1	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		p-cresol	0	ug/L	6.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Nitrobenzene	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Isophorone	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Decafluorobiphenyl	56.5	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		2-Nitrophenol	0	ug/L	6.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Naphthalene	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		1-Fluoronaphthalene	59.0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		alpha terpineol	0	ug/L	6.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Acenaphthylene	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Acenaphthene	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		4-Nitrophenol	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Diethyl phthalate	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	Fluorene	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	2,4,6-Tribromophenol	80.3	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	Pentachlorophenol	0	ug/L	6.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	n-octadecane	0	ug/L	6.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	Phenanthrene	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	Anthracene	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	carbazole	0	ug/L	6.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	Fluoranthene	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	Benzidine	0	ug/L	6.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	Pyrene	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	Chrysene	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	Perylene-D12	50.0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	Hexachloroethane	0	ug/L	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625	2,3-Dichloroaniline	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Diethylphthalate	0	ug/L	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Benzo[ghi]perylene	0	ug/L	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Hydrazine, (2-methyl-1-propenyl)- T	1	ug/L	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	17	ug/L	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		7-Oxabicyclo[4.1.0]heptane T	5	ug/L	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		2-Cyclohexen-1-one T	8	ug/L	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Pyridine, 3-butyl-, 1-oxide T	1	ug/L	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Tetradecanoic acid T	1	ug/L	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		n-Hexadecanoic acid T	3	ug/L	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		Decanedioic acid, dibutyl ester T	1	ug/L	
AC07336	LM32	Little Miami Watershed	32	9/20/2012	12:20	\$625		TOTAL AMOUNT	670	ug/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45		MF_CF	Fecal Coliform, Membrane Filter	121	CFU/100mL	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45		E-COLI	E.coli (Colilert)	101	MPN	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45		TDS	Total Dissolved Solids	380	mg/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45		SO4	Sulfate	38.0	mg/L	12.5
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45		CL	Chloride	43.4	mg/L	1.00
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45		TSS	Tot. Suspended Solids	14	mg/L	2
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45		SSC	Suspended Sediment Concentration	19.5	mg/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45		HARD	Hardness as CaCO3	250	mg/l	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45		COD	COD	5	mg/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	438	uS/cm	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45		TEMP_FLD	Temperature (Field) Celsius	18.49	Deg C	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45		PH_FLD	pH (Field)	8.08	S.U.	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45		DO_FLD	Dissolved Oxygen (field) mg/L	11.28	mg/l	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45		CONDUCTIVITY	Specific Conductivity (uS/cm)	501	uS/cm	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45		\$ICP	Aluminum	0.371	mg/L	0.348
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45		\$ICP	Antimony	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$ICP	Arsenic	0.00	mg/L	0.012
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$ICP	Barium	0.0357	mg/L	0.003
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$ICP	Calcium	58.9	mg/L	0.066
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$ICP	Chromium	0.00	mg/L	0.006
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$ICP	Copper	0.00676	mg/L	0.006
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$ICP	Iron	0.732	mg/L	0.018
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$ICP	Lead	0.00	mg/L	0.006
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$ICP	Magnesium	12.9	mg/L	0.021
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$ICP	Manganese	0.111	mg/L	0.009
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$ICP	Nickel	0.00462	mg/L	0.003
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$ICP	Selenium	0.0124	mg/L	0.009
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$ICP	Silver	0.00	mg/L	0.003
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$ICP	Strontium	0.197	mg/L	0.009
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$ICP	Thallium	0.0133	mg/L	0.012
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$ICP	Tin	0.00	mg/L	0.006
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$ICP	Zinc	0.0108	mg/L	0.006
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	PB_FU	Lead by Furnace	0.67	ug/L	1.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	AS_FU	Arsenic by Furnace	1.94	ug/L	1.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	CU_FU	Copper by Furnace	2.8	ug/L	1
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	NH3	Ammonia as N	0	mg/L	0.5
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	NO3NO2	Nitrate + Nitrite	2.90	mg/L	0.5
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	TKN	Total Kjeldahl Nitrogen	0.5159	mg/L	0.5
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	TKP	Total Kjeldahl Phosphorus	0.6151	mg/L	0.5
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	NO2	Nitrite as N	0.0187	mg/l	0.005
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	NO3	Nitrate as N (calculated)	2.8813	mg/l	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	Aldrin	AA	ug/L	0.02
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	Alpha-BHC	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	Chlordane	AA	ug/L	0.10
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	Dieldrin	AA	ug/L	0.02
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	Endrin	AA	ug/L	0.02
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	Heptachlor	AA	ug/L	0.02
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	Toxaphene	AA	ug/L	1.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	PCB 1016	AA	ug/L	0.5
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	PCB 1221	AA	ug/L	0.5
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	PCB 1232	AA	ug/L	0.5
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	PCB 1242	AA	ug/L	0.5
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	PCB 1248	AA	ug/L	0.5
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	PCB 1254	AA	ug/L	0.5
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	PCB 1260	AA	ug/L	0.5
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	Surr: Decachlorobiphenyl	0.361	%	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$PEST	Surr: Tetrachloro-m-xylene	0.479	%	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624	Chloromethane	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624	Vinyl Chloride	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624	Bromomethane	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624	Chloroethane	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624	Acrolein	0	ug/L	100.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624	1,1-Dichloroethene	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		Acrylonitrile	0	ug/L	100.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		Methylene Chloride	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		Chloroform	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		1,2-Dichloroethane-d4	50.4	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		Benzene	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		Trichloroethene	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		Bromodichloromethane	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		Dibromochloromethane	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		Bromoform	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		Tetrachloroethene	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		Toluene	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		Toluene-d8	53.9	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		Chlorobenzene	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		Ethylbenzene	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		Bromofluorobenzene	86.4	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		2-Propanone	0	ug/L	60
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		2-Butanone	0	ug/L	60

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		Tetrahydrofuran	0	ug/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		2-chloroethoxy ethene	0	ug/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$624		TOTAL AMOUNT	341	ug/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		pyridine	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		2-Fluorophenol	50.0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		aniline	0	ug/L	6.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Phenol-d6	32.9	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Phenol	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		2-Chlorophenol	0	ug/L	6.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		n-decane	0	ug/L	6.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		o-cresol	0	ug/L	6.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		acetophenone	0	ug/L	6.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Hexachloroethane	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Nitrobenzene-d5	77.7	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		p-cresol	0	ug/L	6.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Nitrobenzene	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Isophorone	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Decafluorobiphenyl	75.6	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		2-Nitrophenol	0	ug/L	6.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Naphthalene	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		1-Fluoronaphthalene	76.2	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		alpha terpineol	0	ug/L	6.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Hexachlorobutadiene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Acenaphthylene	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Acenaphthene	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		4-Nitrophenol	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Diethyl phthalate	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Fluorene	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		2,4,6-Tribromophenol	81.1	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Pentachlorophenol	0	ug/L	6.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		n-octadecane	0	ug/L	6.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Phenanthrene	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Anthracene	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		carbazole	0	ug/L	6.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Fluoranthene	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Benzidine	0	ug/L	6.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Pyrene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Chrysene	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Perylene-D12	50.0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Hexachloroethane	0	ug/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		2,3-Dichloroaniline	0	ug/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Diethylphthalate	0	ug/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Benzo[ghi]perylene	0	ug/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Peucelinendiol T	1	ug/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	36	ug/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		7-Oxabicyclo[4.1.0]heptane T	6	ug/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Cyclohexene, 3-chloro- T	1	ug/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		2-Cyclohexen-1-one T	9	ug/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		2-Chlorocyclohexanol T	2	ug/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Bi-2-cyclohexen-1-yl T	1	ug/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		Butane, 1,2,3,4-tetrachloro-1,1,2,3,4, T	1	ug/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		4-Pyridinemethanol, acetate (ester) T	1	ug/L	
AC07337	LM34	Little Miami Watershed	34	9/20/2012	12:45	\$625		TOTAL AMOUNT	752	ug/L	
AC07338	RF02	Mill Creek Watershed Reference	02	9/20/2012	09:00		E-COLI	E.coli (Colilert)	24	MPN	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07338	RF02	Mill Creek Watershed Reference	02	9/20/2012	09:00	MF_CF	Fecal Coliform, Membrane Filter	370	CFU/100mL	
AC07339	RF03	Mill Creek Watershed Reference	03	9/20/2012	09:30	E-COLI	E.coli (Colilert)	345	MPN	
AC07339	RF03	Mill Creek Watershed Reference	03	9/20/2012	09:30	MF_CF	Fecal Coliform, Membrane Filter	7	CFU/100mL	
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	MF_CF	Fecal Coliform, Membrane Filter	71	CFU/100mL	
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	E-COLI	E.coli (Colilert)	179	MPN	
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	TDS	Total Dissolved Solids	540	mg/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	BOD	Biochemical Oxygen Demand	1	mg/L	2
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	SO4	Sulfate	92.0	mg/L	25.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	CL	Chloride	135	mg/L	2.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	TSS	Tot. Suspended Solids	48	mg/L	2
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	SSC	Suspended Sediment Concentration	6.8	mg/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	HARD	Hardness as CaCO3	230	mg/l	
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	COD	COD	9	mg/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	856	uS/cm	
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	TEMP_FLD	Temperature (Field) Celsius	17.03	Deg C	
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	PH_FLD	pH (Field)	7.23	S.U.	
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	DO_FLD	Dissolved Oxygen (field) mg/L	6.43	mg/l	
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	1009	uS/cm	
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$ICP	Aluminum	0.465	mg/L	0.348
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$ICP	Antimony	0.00	mg/L	0.006
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$ICP	Arsenic	0.00	mg/L	0.012
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$ICP	Barium	0.0311	mg/L	0.003
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$ICP	Calcium	70.7	mg/L	0.066
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$ICP	Chromium	0.00	mg/L	0.006
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$ICP	Copper	0.0140	mg/L	0.006
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$ICP	Iron	0.677	mg/L	0.018
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$ICP	Lead	0.00	mg/L	0.006
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$ICP	Magnesium	17.3	mg/L	0.021
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$ICP	Manganese	0.0641	mg/L	0.009
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$ICP	Nickel	0.00511	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$ICP	Selenium	0.0126	mg/L	0.009
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$ICP	Silver	0.00	mg/L	0.003
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$ICP	Strontium	0.270	mg/L	0.009
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$ICP	Thallium	0.0166	mg/L	0.012
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$ICP	Tin	0.00	mg/L	0.006
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$ICP	Zinc	0.0425	mg/L	0.006
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	PB_FU	Lead by Furnace	0.80	ug/L	1.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	AS_FU	Arsenic by Furnace	1.25	ug/L	1.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	CU_FU	Copper by Furnace	8.5	ug/L	1
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	NH3	Ammonia as N	0	mg/L	0.5
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	NO3NO2	Nitrate + Nitrite	19.5	mg/L	0.5
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	TKP	Total Kjeldahl Phosphorus	3.038	mg/L	0.5
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	NO2	Nitrite as N	0.0787	mg/l	0.005
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	NO3	Nitrate as N (calculated)	19.4213	mg/l	
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	Aldrin	AA	ug/L	0.02
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	Chlordane	AA	ug/L	0.10
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	Dieldrin	AA	ug/L	0.02
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	Endrin	AA	ug/L	0.02
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	Endrin aldehyde	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	Heptachlor	AA	ug/L	0.02
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	Toxaphene	AA	ug/L	1.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	PCB 1016	AA	ug/L	0.5
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	PCB 1221	AA	ug/L	0.5
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	PCB 1232	AA	ug/L	0.5
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	PCB 1242	AA	ug/L	0.5
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	PCB 1248	AA	ug/L	0.5
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	PCB 1254	AA	ug/L	0.5
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	PCB 1260	AA	ug/L	0.5
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	Surr: Decachlorobiphenyl	1.01	%	
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$PEST	Surr: Tetrachloro-m-xylene	0.967	%	
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Chloromethane	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Vinyl Chloride	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Bromomethane	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Chloroethane	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Acrolein	0	ug/L	100.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Acrylonitrile	0	ug/L	100.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Methylene Chloride	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Chloroform	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	1,2-Dichloroethane-d4	49.9	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Benzene	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Trichloroethene	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	2-Chloroethylvinylether	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Bromodichloromethane	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Dibromochloromethane	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Bromoform	16.8	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Tetrachloroethene	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	1,1,2,2-Tetrachloroethane	42.1	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Toluene	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Toluene-d8	49.4	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Chlorobenzene	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Ethylbenzene	0	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Bromofluorobenzene	59.7	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	1,3-Dichlorobenzene	16.5	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	1,4-Dichlorobenzene	21.3	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	1,2-Dichlorobenzene	30.7	ug/L	5.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	2-Propanone	0	ug/L	60
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	2-Butanone	0	ug/L	60
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	Tetrahydrofuran	0	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	2-chloroethoxy ethene	0	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$624	TOTAL AMOUNT	443	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	pyridine	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	2-Fluorophenol	27.9	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	aniline	0	ug/L	6.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Phenol-d6	24.9	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Phenol	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	2-Chlorophenol	0	ug/L	6.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	n-decane	0	ug/L	6.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	o-cresol	0	ug/L	6.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	acetophenone	0	ug/L	6.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Hexachloroethane	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Nitrobenzene-d5	54.0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	p-cresol	0	ug/L	6.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Nitrobenzene	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Isophorone	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Decafluorobiphenyl	45.4	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	2-Nitrophenol	0	ug/L	6.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Naphthalene	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	1-Fluoronaphthalene	49.7	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	alpha terpineol	0	ug/L	6.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Acenaphthylene	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Acenaphthene	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	4-Nitrophenol	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	2,4-Dinitrotoluene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Diethyl phthalate	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Fluorene	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	2,4,6-Tribromophenol	54.8	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Pentachlorophenol	0	ug/L	6.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	n-octadecane	0	ug/L	6.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Phenanthrene	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Anthracene	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	carbazole	0	ug/L	6.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Fluoranthene	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Benzidine	0	ug/L	6.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Pyrene	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Chrysene	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Perylene-D12	50.0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07436	LM37	Little Miami Watershed	37	9/21/2012	08:45	\$625	Benzo(ghi)perylene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07436	LM37	Little Miami Watershed	37	9/21/2012 08:45	\$625		Hexachloroethane	0	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012 08:45	\$625		2,3-Dichloroaniline	0	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012 08:45	\$625		Diethylphthalate	0	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012 08:45	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012 08:45	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012 08:45	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012 08:45	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012 08:45	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012 08:45	\$625		Benzo[ghi]perylene	0	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012 08:45	\$625		Ethane, 1,1,2-trichloro- T	2	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012 08:45	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	9	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012 08:45	\$625		7-Oxabicyclo[4.1.0]heptane T	3	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012 08:45	\$625		2-Cyclohexen-1-one T	6	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012 08:45	\$625		Ethanol, 2,2'-oxybis- T	4	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012 08:45	\$625		1-Propanol, 2-(2-hydroxypropoxy)- T	2	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012 08:45	\$625		Triethylene glycol T	2	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012 08:45	\$625		1-Propanol, 2-(2-methoxypropoxy)- T	7	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012 08:45	\$625		Ethanol, 2-[2-(2-methoxyethoxy)ethoxy] T	3	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012 08:45	\$625		2-Amino-4-hydroxy-6,7,8-trimethylpteri T	2	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012 08:45	\$625		n-Hexadecanoic acid T	2	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012 08:45	\$625		3,6,9,12,15-Pentaoxanonadecan-1-ol T	2	ug/L	
AC07436	LM37	Little Miami Watershed	37	9/21/2012 08:45	\$625		TOTAL AMOUNT	599	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012 09:10	MF_CF		Fecal Coliform, Membrane Filter	50	CFU/100mL	
AC07437	LM52	Little Miami Watershed	52	9/21/2012 09:10	E-COLI		E.coli (Colilert)	99	MPN	
AC07437	LM52	Little Miami Watershed	52	9/21/2012 09:10	TDS		Total Dissolved Solids	590	mg/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012 09:10	BOD		Biochemical Oxygen Demand	2	mg/L	2
AC07437	LM52	Little Miami Watershed	52	9/21/2012 09:10	SO4		Sulfate	115	mg/L	25.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012 09:10	CL		Chloride	178	mg/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012 09:10	TSS		Tot. Suspended Solids	10	mg/L	2
AC07437	LM52	Little Miami Watershed	52	9/21/2012 09:10	SSC		Suspended Sediment Concentration	AA	mg/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012 09:10	HARD		Hardness as CaCO3	266	mg/l	
AC07437	LM52	Little Miami Watershed	52	9/21/2012 09:10	COD		COD	19	mg/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012 09:10	CONDUCTIVITY-R		Relative Conductivity (uS/cm)	1028	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	TEMP_FLD	Temperature (Field) Celsius	21.48	Deg C	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	PH_FLD	pH (Field)	7.85	S.U.	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	DO_FLD	Dissolved Oxygen (field) mg/L	8	mg/l	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	1102	uS/cm	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$ICP	Aluminum	0.00	mg/L	0.348
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$ICP	Antimony	0.00	mg/L	0.006
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$ICP	Arsenic	0.00	mg/L	0.012
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$ICP	Barium	0.0243	mg/L	0.003
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$ICP	Calcium	67.9	mg/L	0.066
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$ICP	Chromium	0.00	mg/L	0.006
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$ICP	Copper	0.00975	mg/L	0.006
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$ICP	Iron	0.0436	mg/L	0.018
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$ICP	Lead	0.00	mg/L	0.006
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$ICP	Magnesium	20.5	mg/L	0.021
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$ICP	Manganese	0.00	mg/L	0.009
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$ICP	Nickel	0.00453	mg/L	0.003
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$ICP	Selenium	0.0182	mg/L	0.009
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$ICP	Silver	0.00	mg/L	0.003
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$ICP	Strontium	0.349	mg/L	0.009
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$ICP	Thallium	0.0265	mg/L	0.012
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$ICP	Tin	0.00	mg/L	0.006
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$ICP	Zinc	0.0516	mg/L	0.006
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	PB_FU	Lead by Furnace	0.33	ug/L	1.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	AS_FU	Arsenic by Furnace	0.90	ug/L	1.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	CU_FU	Copper by Furnace	5.6	ug/L	1
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	NH3	Ammonia as N	0	mg/L	0.5
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	NO3NO2	Nitrate + Nitrite	6.04	mg/L	0.5
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	TKN	Total Kjeldahl Nitrogen	0.6711	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	TKP	Total Kjeldahl Phosphorus	0.8674	mg/L	0.5
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	NO2	Nitrite as N	0.0229	mg/l	0.005
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	NO3	Nitrate as N (calculated)	6.0171	mg/l	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	Aldrin	AA	ug/L	0.02
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	Chlordane	AA	ug/L	0.10
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	Dieldrin	AA	ug/L	0.02
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	Endrin	AA	ug/L	0.02
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	Heptachlor	AA	ug/L	0.02
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	Toxaphene	AA	ug/L	1.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	PCB 1016	AA	ug/L	0.5
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	PCB 1221	AA	ug/L	0.5
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	PCB 1232	AA	ug/L	0.5
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	PCB 1242	AA	ug/L	0.5
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	PCB 1248	AA	ug/L	0.5
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	PCB 1254	AA	ug/L	0.5
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	PCB 1260	AA	ug/L	0.5
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	Surr: Decachlorobiphenyl	1.26	%	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$PEST	Surr: Tetrachloro-m-xylene	1.17	%	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Chloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Vinyl Chloride	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Bromomethane	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Chloroethane	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Acrolein	0	ug/L	100.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Acrylonitrile	0	ug/L	100.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Methylene Chloride	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Chloroform	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	1,2-Dichloroethane-d4	51.7	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Benzene	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Trichloroethene	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Bromodichloromethane	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Dibromochloromethane	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Bromoform	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Tetrachloroethene	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Toluene	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Toluene-d8	47.9	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Chlorobenzene	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Ethylbenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Bromofluorobenzene	63.8	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	2-Propanone	0	ug/L	60
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	2-Butanone	0	ug/L	60
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	Tetrahydrofuran	0	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	2-chloroethoxy ethene	0	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$624	TOTAL AMOUNT	313	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	pyridine	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	2-Fluorophenol	30.8	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	aniline	0	ug/L	6.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Phenol-d6	22.3	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Phenol	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	2-Chlorophenol	0	ug/L	6.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	n-decane	0	ug/L	6.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	o-cresol	0	ug/L	6.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	acetophenone	0	ug/L	6.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Hexachloroethane	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Nitrobenzene-d5	53.8	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	p-cresol	0	ug/L	6.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Nitrobenzene	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Isophorone	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Decafluorobiphenyl	49.2	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	2-Nitrophenol	0	ug/L	6.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Naphthalene	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	1-Fluoronaphthalene	53.5	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	alpha terpineol	0	ug/L	6.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Acenaphthylene	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Acenaphthene	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	4-Nitrophenol	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Diethyl phthalate	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Fluorene	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	2,4,6-Tribromophenol	69.7	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Pentachlorophenol	0	ug/L	6.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	n-octadecane	0	ug/L	6.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Phenanthrene	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Anthracene	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	carbazole	0	ug/L	6.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Fluoranthene	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Benzdine	0	ug/L	6.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Pyrene	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Chrysene	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Perylene-D12	50.0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Hexachloroethane	0	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	2,3-Dichloroaniline	0	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Diethylphthalate	0	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Benzo[ghi]perylene	0	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	16	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	7-Oxabicyclo[4.1.0]heptane T	4	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	2-Cyclohexen-1-one T	6	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	2-Chlorocyclohexanol T	1	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Pyridine, 3-butyl-, 1-oxide T	6	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Cyclohexane, ethylidene- T	3	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	N-Ethyl-O-toluenesulfonamide T	9	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Benzenesulfonamide, N-ethyl-4-methyl- T	1	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Benzenesulfonamide, N-ethyl-4-methyl- T2	4	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Tetradecanoic acid T	1	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	n-Hexadecanoic acid T	9	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	Octadecanoic acid T	3	ug/L	
AC07437	LM52	Little Miami Watershed	52	9/21/2012	09:10	\$625	TOTAL AMOUNT	641	ug/L	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	MF_CF	Fecal Coliform, Membrane Filter	43	CFU/100mL	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	E-COLI	E.coli (Colilert)	43	MPN	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	TDS	Total Dissolved Solids	460	mg/L	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	BOD	Biochemical Oxygen Demand	1	mg/L	2
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	SO4	Sulfate	66.0	mg/L	25.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	CL	Chloride	153	mg/L	4.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	TSS	Tot. Suspended Solids	16	mg/L	2
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	SSC	Suspended Sediment Concentration	5.8	mg/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	HARD	Hardness as CaCO3	282	mg/l	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	COD	COD	6	mg/L	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	781	uS/cm	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	TEMP_FLD	Temperature (Field) Celsius	15.84	Deg C	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	PH_FLD	pH (Field)	7.72	S.U.	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	DO_FLD	Dissolved Oxygen (field) mg/L	7.4	mg/l	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	947	uS/cm	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$ICP	Antimony	0.00	mg/L	0.006
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$ICP	Barium	0.0461	mg/L	0.003
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$ICP	Calcium	83.9	mg/L	0.066
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$ICP	Chromium	0.00	mg/L	0.006
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$ICP	Copper	0.00777	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$ICP	Iron	0.0586	mg/L	0.018
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$ICP	Lead	0.00	mg/L	0.006
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$ICP	Magnesium	18.1	mg/L	0.021
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$ICP	Manganese	0.0228	mg/L	0.009
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$ICP	Nickel	0.00365	mg/L	0.003
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$ICP	Selenium	0.0261	mg/L	0.009
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$ICP	Silver	0.00	mg/L	0.003
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$ICP	Strontium	0.364	mg/L	0.009
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$ICP	Thallium	0.0148	mg/L	0.012
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$ICP	Tin	0.00	mg/L	0.006
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$ICP	Zinc	0.00	mg/L	0.006
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	PB_FU	Lead by Furnace	0.09	ug/L	1.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	AS_FU	Arsenic by Furnace	0.85	ug/L	1.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	CU_FU	Copper by Furnace	2.8	ug/L	1
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	NH3	Ammonia as N	0	mg/L	0.5
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	NO2	Nitrite as N	0.0102	mg/l	0.005
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	Aldrin	AA	ug/L	0.02
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	Chlordane	AA	ug/L	0.10
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	Dieldrin	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	Endrin	AA	ug/L	0.02
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	Surr: Decachlorobiphenyl	0.980	%	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$PEST	Surr: Tetrachloro-m-xylene	0.859	%	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624	Chloromethane	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624	Bromomethane	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624	Chloroethane	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624	Acrolein	0	ug/L	100.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624	Acrylonitrile	0	ug/L	100.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624	Methylene Chloride	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624	Chloroform	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624	1,2-Dichloroethane-d4	52.4	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		Benzene	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		Trichloroethene	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		Bromoform	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		Toluene	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		Toluene-d8	48.5	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		Chlorobenzene	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		Ethylbenzene	0	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		Bromofluorobenzene	65.4	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		1,3-Dichlorobenzene	5.6	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		1,4-Dichlorobenzene	7.1	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		1,2-Dichlorobenzene	9.2	ug/L	5.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		2-Propanone	0	ug/L	60
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		2-Butanone	0	ug/L	60
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		Tetrahydrofuran	0	ug/L	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$624		TOTAL AMOUNT	338	ug/L	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		pyridine	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		2-Fluorophenol	36.5	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		aniline	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Phenol-d6	25.4	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Phenol	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		n-decane	0	ug/L	6.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		o-cresol	0	ug/L	6.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		acetophenone	0	ug/L	6.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Hexachloroethane	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Nitrobenzene-d5	57.5	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		p-cresol	0	ug/L	6.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Nitrobenzene	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Isophorone	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Decafluorobiphenyl	54.1	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Naphthalene	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		1-Fluoronaphthalene	56.0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		alpha terpineol	0	ug/L	6.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Acenaphthylene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	Acenaphthene	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	4-Nitrophenol	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	Diethyl phthalate	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	Fluorene	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	2,4,6-Tribromophenol	72.0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	Pentachlorophenol	0	ug/L	6.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	n-octadecane	0	ug/L	6.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	Phenanthrene	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	Anthracene	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	carbazole	0	ug/L	6.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	Fluoranthene	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	Benzidine	0	ug/L	6.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	Pyrene	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	Chrysene	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	Perylene-D12	50.0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625	Benzo(b)fluoranthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Hexachloroethane	0	ug/L	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Diethylphthalate	0	ug/L	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	13	ug/L	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		1-Propenylaziridine T	4	ug/L	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		2-Cyclohexen-1-one T	7	ug/L	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		Ethanol, 2,2'-oxybis- T	2	ug/L	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		1-Dodecanamine, N,N-dimethyl- T	3	ug/L	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		3,6,9,12,15-Pentaoxanonadecan-1-ol T	1	ug/L	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		n-Hexadecanoic acid T	1	ug/L	
AC07438	LM51	Little Miami Watershed	51	9/21/2012	09:30	\$625		TOTAL AMOUNT	631	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45		MF_CF	Fecal Coliform, Membrane Filter	21	CFU/100mL	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45		E-COLI	E.coli (Colilert)	45	MPN	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45		TDS	Total Dissolved Solids	520	mg/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45		BOD	Biochemical Oxygen Demand	1	mg/L	2
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45		SO4	Sulfate	80.5	mg/L	25.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45		CL	Chloride	196	mg/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45		TSS	Tot. Suspended Solids	8	mg/L	2
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45		SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45		HARD	Hardness as CaCO3	278	mg/l	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45		COD	COD	12	mg/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	897	uS/cm	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	TEMP_FLD	Temperature (Field) Celsius	15.12	Deg C	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	PH_FLD	pH (Field)	7.88	S.U.	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	DO_FLD	Dissolved Oxygen (field) mg/L	8.12	mg/l	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	1105	uS/cm	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$ICP	Aluminum	0.00	mg/L	0.348
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$ICP	Antimony	0.00	mg/L	0.006
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$ICP	Arsenic	0.00	mg/L	0.012
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$ICP	Barium	0.0432	mg/L	0.003
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$ICP	Calcium	87.8	mg/L	0.066
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$ICP	Chromium	0.00	mg/L	0.006
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$ICP	Copper	0.00809	mg/L	0.006
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$ICP	Iron	0.0516	mg/L	0.018
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$ICP	Lead	0.00	mg/L	0.006
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$ICP	Magnesium	18.2	mg/L	0.021
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$ICP	Manganese	0.0225	mg/L	0.009
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$ICP	Nickel	0.00328	mg/L	0.003
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$ICP	Selenium	0.0182	mg/L	0.009
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$ICP	Silver	0.00	mg/L	0.003
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$ICP	Strontium	0.416	mg/L	0.009
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$ICP	Thallium	0.0130	mg/L	0.012
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$ICP	Tin	0.00	mg/L	0.006
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$ICP	Zinc	0.00	mg/L	0.006
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	PB_FU	Lead by Furnace	0.10	ug/L	1.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	AS_FU	Arsenic by Furnace	1.04	ug/L	1.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	CU_FU	Copper by Furnace	3.5	ug/L	1
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	NH3	Ammonia as N	0	mg/L	0.5
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	NO2	Nitrite as N	0.0092	mg/l	0.005
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	Aldrin	AA	ug/L	0.02
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	Chlordane	AA	ug/L	0.10
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	Dieldrin	AA	ug/L	0.02
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	Endrin	AA	ug/L	0.02
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	Heptachlor	AA	ug/L	0.02
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	Toxaphene	AA	ug/L	1.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	PCB 1016	AA	ug/L	0.5
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	PCB 1221	AA	ug/L	0.5
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	PCB 1232	AA	ug/L	0.5
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	PCB 1242	AA	ug/L	0.5
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	PCB 1248	AA	ug/L	0.5
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	PCB 1254	AA	ug/L	0.5
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	PCB 1260	AA	ug/L	0.5
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	Surr: Decachlorobiphenyl	1.04	%	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$PEST	Surr: Tetrachloro-m-xylene	0.830	%	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624	Chloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		Vinyl Chloride	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		Bromomethane	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		Chloroethane	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		Acrolein	0	ug/L	100.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		Acrylonitrile	0	ug/L	100.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		Methylene Chloride	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		Chloroform	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		1,2-Dichloroethane-d4	51.2	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		Benzene	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		Trichloroethene	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		Bromodichloromethane	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		Dibromochloromethane	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		Bromoform	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		Tetrachloroethene	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		Toluene	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		Toluene-d8	48.3	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		Chlorobenzene	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624		Ethylbenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624	Bromofluorobenzene	67.3	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624	2-Propanone	0	ug/L	60
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624	2-Butanone	0	ug/L	60
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624	Tetrahydrofuran	0	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624	2-chloroethoxy ethene	0	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$624	TOTAL AMOUNT	317	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	pyridine	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	2-Fluorophenol	35.3	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	aniline	0	ug/L	6.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Phenol-d6	25.7	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Phenol	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	2-Chlorophenol	0	ug/L	6.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	n-decane	0	ug/L	6.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	o-cresol	0	ug/L	6.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	acetophenone	0	ug/L	6.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Hexachloroethane	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Nitrobenzene-d5	63.1	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	p-cresol	0	ug/L	6.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Nitrobenzene	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Isophorone	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Decafluorobiphenyl	56.0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	2-Nitrophenol	0	ug/L	6.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Naphthalene	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	1-Fluoronaphthalene	62.4	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	alpha terpineol	0	ug/L	6.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Acenaphthylene	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Acenaphthene	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	4-Nitrophenol	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Diethyl phthalate	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Fluorene	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	2,4,6-Tribromophenol	75.2	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Pentachlorophenol	0	ug/L	6.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	n-octadecane	0	ug/L	6.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Phenanthrene	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Anthracene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		carbazole	0	ug/L	6.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Fluoranthene	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Benzidine	0	ug/L	6.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Pyrene	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Chrysene	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Perylene-D12	50.0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Hexachloroethane	0	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		2,3-Dichloroaniline	0	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Diethylphthalate	0	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Benzo[ghi]perylene	0	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	6	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		7-Oxabicyclo[4.1.0]heptane T	4	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		2-Cyclohexen-1-one T	7	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		Ethanol, 2,2'-oxybis- T	2	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625		2-Chlorocyclohexanol T	1	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Triethylene glycol T	1	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Propylhexedrine T	1	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Ethanol, 2-[2-(2-methoxyethoxy)ethoxy] T	1	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	n-Hexadecanoic acid T	2	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Pentaethylene glycol T	1	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Decanedioic acid, dibutyl ester T	1	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	Di-n-octyl phthalate T2	2	ug/L	
AC07439	LM50	Little Miami Watershed	50	9/21/2012	09:45	\$625	TOTAL AMOUNT	647	ug/L	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	36	CFU/100mL	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	E-COLI	E.coli (Colilert)	56	MPN	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	TDS	Total Dissolved Solids	490	mg/L	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	SO4	Sulfate	54.0	mg/L	25.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	CL	Chloride	122	mg/L	2.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	TSS	Tot. Suspended Solids	40	mg/L	2
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	SSC	Suspended Sediment Concentration	29.0	mg/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	HARD	Hardness as CaCO3	300	mg/l	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	COD	COD	7	mg/L	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	739	uS/cm	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	14.3	Deg C	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	PH_FLD	pH (Field)	8.41	S.U.	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	10.97	mg/l	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	928	uS/cm	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$ICP	Antimony	0.00	mg/L	0.006
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$ICP	Barium	0.0406	mg/L	0.003
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$ICP	Calcium	89.8	mg/L	0.066
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$ICP	Chromium	0.00	mg/L	0.006
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$ICP	Copper	0.00920	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$ICP	Iron	0.448	mg/L	0.018
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$ICP	Lead	0.00	mg/L	0.006
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$ICP	Magnesium	17.1	mg/L	0.021
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$ICP	Manganese	0.0632	mg/L	0.009
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$ICP	Nickel	0.00413	mg/L	0.003
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$ICP	Selenium	0.0252	mg/L	0.009
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$ICP	Silver	0.00	mg/L	0.003
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$ICP	Strontium	0.404	mg/L	0.009
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$ICP	Thallium	0.00	mg/L	0.012
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$ICP	Tin	0.00	mg/L	0.006
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$ICP	Zinc	0.00685	mg/L	0.006
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	PB_FU	Lead by Furnace	0.74	ug/L	1.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	AS_FU	Arsenic by Furnace	1.63	ug/L	1.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	CU_FU	Copper by Furnace	3.2	ug/L	1
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	NO2	Nitrite as N	0.0104	mg/l	0.005
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	CHLOROPHYLL	Chlorophyll	19.8	mg/m3	1.00
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	Aldrin	AA	ug/L	0.02
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	Chlordane	AA	ug/L	0.10
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	Dieldrin	AA	ug/L	0.02



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	Endrin	AA	ug/L	0.02
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	Toxaphene	AA	ug/L	1.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	Surr: Decachlorobiphenyl	0.938	%	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$PEST	Surr: Tetrachloro-m-xylene	0.898	%	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624	Chloromethane	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624	Bromomethane	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624	Chloroethane	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624	Acrolein	0	ug/L	100.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624	Acrylonitrile	0	ug/L	100.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624	Methylene Chloride	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624	Chloroform	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624	1,2-Dichloroethane-d4	51.7	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		Benzene	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		Trichloroethene	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		Bromodichloromethane	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		Bromoform	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		Toluene	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		Toluene-d8	48.6	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		Chlorobenzene	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		Ethylbenzene	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		Bromofluorobenzene	68.3	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		2-Propanone	0	ug/L	60
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		2-Butanone	0	ug/L	60
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		Tetrahydrofuran	0	ug/L	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		2-chloroethoxy ethene	0	ug/L	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$624		TOTAL AMOUNT	319	ug/L	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		pyridine	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		2-Fluorophenol	30.3	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		aniline	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Phenol-d6	25.0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Phenol	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		2-Chlorophenol	0	ug/L	6.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		n-decane	0	ug/L	6.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		o-cresol	0	ug/L	6.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		acetophenone	0	ug/L	6.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Hexachloroethane	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Nitrobenzene-d5	52.5	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		p-cresol	0	ug/L	6.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Nitrobenzene	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Isophorone	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Decafluorobiphenyl	40.3	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		2-Nitrophenol	0	ug/L	6.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Naphthalene	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		1-Fluoronaphthalene	52.1	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		alpha terpineol	0	ug/L	6.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Acenaphthylene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Acenaphthene	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		4-Nitrophenol	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Diethyl phthalate	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Fluorene	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		2,4,6-Tribromophenol	84.1	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Pentachlorophenol	0	ug/L	6.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		n-octadecane	0	ug/L	6.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Phenanthrene	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Anthracene	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		carbazole	0	ug/L	6.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Fluoranthene	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Benzidine	0	ug/L	6.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Pyrene	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Chrysene	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Perylene-D12	50.0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Benzo(b)fluoranthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Hexachloroethane	0	ug/L	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		2,3-Dichloroaniline	0	ug/L	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Diethylphthalate	0	ug/L	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		Benzo[ghi]perylene	0	ug/L	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	11	ug/L	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		2-Cyclohexen-1-one T	5	ug/L	
AC07440	LM49	Little Miami Watershed	49	9/21/2012	10:00	\$625		TOTAL AMOUNT	601	ug/L	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30		MF_CF	Fecal Coliform, Membrane Filter	121	CFU/100mL	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30		E-COLI	E.coli (Colilert)	101	MPN	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30		TDS	Total Dissolved Solids	360	mg/L	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30		BOD	Biochemical Oxygen Demand	1	mg/L	2
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30		SO4	Sulfate	48.8	mg/L	25.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30		CL	Chloride	92.0	mg/L	1.00
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30		TSS	Tot. Suspended Solids	12	mg/L	2
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30		SSC	Suspended Sediment Concentration	7.3	mg/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30		HARD	Hardness as CaCO3	190	mg/l	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30		COD	COD	19	mg/L	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	532	uS/cm	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30		TEMP_FLD	Temperature (Field) Celsius	18.64	Deg C	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30		PH_FLD	pH (Field)	7.38	S.U.	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30		DO_FLD	Dissolved Oxygen (field) mg/L	6.82	mg/l	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30		CONDUCTIVITY	Specific Conductivity (uS/cm)	606	uS/cm	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30		\$ICP	Aluminum	0.00	mg/L	0.348

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$ICP	Antimony	0.00	mg/L	0.006
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$ICP	Barium	0.0289	mg/L	0.003
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$ICP	Calcium	50.4	mg/L	0.066
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$ICP	Chromium	0.00	mg/L	0.006
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$ICP	Copper	0.0123	mg/L	0.006
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$ICP	Iron	0.353	mg/L	0.018
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$ICP	Lead	0.00	mg/L	0.006
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$ICP	Magnesium	14.1	mg/L	0.021
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$ICP	Manganese	0.0819	mg/L	0.009
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$ICP	Nickel	0.00479	mg/L	0.003
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$ICP	Selenium	0.0234	mg/L	0.009
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$ICP	Silver	0.00	mg/L	0.003
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$ICP	Strontium	0.186	mg/L	0.009
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$ICP	Thallium	0.00	mg/L	0.012
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$ICP	Tin	0.00	mg/L	0.006
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$ICP	Zinc	0.0319	mg/L	0.006
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	PB_FU	Lead by Furnace	0.39	ug/L	1.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	AS_FU	Arsenic by Furnace	1.28	ug/L	1.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	CU_FU	Copper by Furnace	6.9	ug/L	1
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	NO3NO2	Nitrate + Nitrite	7.67	mg/L	0.5
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	TKP	Total Kjeldahl Phosphorus	1.713	mg/L	0.5
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	NO2	Nitrite as N	0.0235	mg/l	0.005
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	NO3	Nitrate as N (calculated)	7.6465	mg/l	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	Aldrin	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	Chlordane	AA	ug/L	0.10
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	Endrin	AA	ug/L	0.02
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	Surr: Decachlorobiphenyl	0.906	%	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$PEST	Surr: Tetrachloro-m-xylene	0.675	%	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624	Chloromethane	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624	Bromomethane	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624	Chloroethane	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624	Acrolein	0	ug/L	100.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		Acrylonitrile	0	ug/L	100.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		Methylene Chloride	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		Chloroform	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		1,2-Dichloroethane-d4	49.7	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		Benzene	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		Trichloroethene	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		Bromoform	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		Toluene	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		Toluene-d8	51.5	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		Chlorobenzene	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		Ethylbenzene	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		Bromofluorobenzene	80.3	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		2-Propanone	0	ug/L	60



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		2-Butanone	0	ug/L	60
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		Tetrahydrofuran	0	ug/L	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$624		TOTAL AMOUNT	332	ug/L	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		pyridine	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		2-Fluorophenol	23.5	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		aniline	0	ug/L	6.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Phenol-d6	17.3	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Phenol	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		n-decane	0	ug/L	6.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		o-cresol	0	ug/L	6.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		acetophenone	0	ug/L	6.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Hexachloroethane	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Nitrobenzene-d5	46.0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		p-cresol	0	ug/L	6.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Nitrobenzene	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Isophorone	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Decafluorobiphenyl	39.2	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Naphthalene	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		1-Fluoronaphthalene	43.6	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		alpha terpineol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Acenaphthylene	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Acenaphthene	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		4-Nitrophenol	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Diethyl phthalate	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Fluorene	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		2,4,6-Tribromophenol	57.3	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Pentachlorophenol	0	ug/L	6.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		n-octadecane	0	ug/L	6.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Phenanthrene	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Anthracene	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		carbazole	0	ug/L	6.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Fluoranthene	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Benzidine	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Pyrene	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Chrysene	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Hexachloroethane	0	ug/L	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Diethylphthalate	0	ug/L	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		Nonanedioic acid, dimethyl ester T	2	ug/L	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	11	ug/L	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		7-Oxabicyclo[4.1.0]heptane T	3	ug/L	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		2-Cyclohexen-1-one T	5	ug/L	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		n-Hexadecanoic acid T	1	ug/L	
AC07441	LM35	Little Miami Watershed	35	9/21/2012	10:30	\$625		TOTAL AMOUNT	532	ug/L	
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10		MF_CF	Fecal Coliform, Membrane Filter	121	CFU/100mL	
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10		E-COLI	E.coli (Colilert)	179	MPN	
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10		TDS	Total Dissolved Solids	250	mg/L	
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10		BOD	Biochemical Oxygen Demand	2	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	SO4	Sulfate	35.2	mg/L	12.5
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	CL	Chloride	46.4	mg/L	1.00
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	TSS	Tot. Suspended Solids	56	mg/L	2
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	SSC	Suspended Sediment Concentration	17.3	mg/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	HARD	Hardness as CaCO3	196	mg/l	
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	COD	COD	18	mg/L	
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	466	uS/cm	
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	TEMP_FLD	Temperature (Field) Celsius	18.31	Deg C	
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	PH_FLD	pH (Field)	7.69	S.U.	
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	DO_FLD	Dissolved Oxygen (field) mg/L	7.6	mg/l	
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	534	uS/cm	
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$ICP	Aluminum	0.404	mg/L	0.348
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$ICP	Antimony	0.00	mg/L	0.006
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$ICP	Arsenic	0.00	mg/L	0.012
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$ICP	Barium	0.0379	mg/L	0.003
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$ICP	Calcium	59.4	mg/L	0.066
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$ICP	Chromium	0.00	mg/L	0.006
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$ICP	Copper	0.00886	mg/L	0.006
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$ICP	Iron	0.738	mg/L	0.018
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$ICP	Lead	0.00	mg/L	0.006
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$ICP	Magnesium	13.4	mg/L	0.021
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$ICP	Manganese	0.136	mg/L	0.009
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$ICP	Nickel	0.00429	mg/L	0.003
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$ICP	Selenium	0.0119	mg/L	0.009
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$ICP	Silver	0.00	mg/L	0.003
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$ICP	Strontium	0.203	mg/L	0.009
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$ICP	Thallium	0.00	mg/L	0.012
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$ICP	Tin	0.00	mg/L	0.006
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$ICP	Zinc	0.0117	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	PB_FU	Lead by Furnace	0.88	ug/L	1.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	AS_FU	Arsenic by Furnace	1.77	ug/L	1.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	CU_FU	Copper by Furnace	3.0	ug/L	1
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	NH3	Ammonia as N	0	mg/L	0.5
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	NO3NO2	Nitrate + Nitrite	3.16	mg/L	0.5
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	TKN	Total Kjeldahl Nitrogen	0.5882	mg/L	0.5
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	TKP	Total Kjeldahl Phosphorus	0.6578	mg/L	0.5
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	NO2	Nitrite as N	0.0197	mg/l	0.005
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	NO3	Nitrate as N (calculated)	3.1403	mg/l	
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	Aldrin	AA	ug/L	0.02
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	Chlordane	AA	ug/L	0.10
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	Dieldrin	AA	ug/L	0.02
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	Endrin	AA	ug/L	0.02
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	Heptachlor	AA	ug/L	0.02
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	Toxaphene	AA	ug/L	1.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	PCB 1016	AA	ug/L	0.5
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	PCB 1221	AA	ug/L	0.5
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	PCB 1232	AA	ug/L	0.5
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	PCB 1242	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	PCB 1248	AA	ug/L	0.5
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	PCB 1254	AA	ug/L	0.5
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	PCB 1260	AA	ug/L	0.5
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	Surr: Decachlorobiphenyl	0.993	%	
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$PEST	Surr: Tetrachloro-m-xylene	0.910	%	
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Chloromethane	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Vinyl Chloride	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Bromomethane	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Chloroethane	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Acrolein	0	ug/L	100.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Acrylonitrile	0	ug/L	100.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Methylene Chloride	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Chloroform	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	1,2-Dichloroethane-d4	47.2	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Benzene	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Trichloroethene	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Bromodichloromethane	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Dibromochloromethane	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Bromoform	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Tetrachloroethene	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Toluene	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Toluene-d8	68.2	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Chlorobenzene	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Ethylbenzene	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Bromofluorobenzene	89.2	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	2-Propanone	0	ug/L	60
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	2-Butanone	0	ug/L	60
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	Tetrahydrofuran	0	ug/L	
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	2-chloroethoxy ethene	0	ug/L	
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$624	TOTAL AMOUNT	355	ug/L	
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625	1,4-Dichlorobenzene-D4	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625	pyridine	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625	n-nitrosodimethylamine	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625	2-Fluorophenol	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625	aniline	AH	ug/L	6.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625	Phenol-d6	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625	Phenol	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625	Bis(2-Chloroethyl)ether	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625	2-Chlorophenol	AH	ug/L	6.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625	n-decane	AH	ug/L	6.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625	Bis(2-chloroisopropyl)ether	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625	o-cresol	AH	ug/L	6.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625	acetophenone	AH	ug/L	6.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625	n-nitrosodi-n-propylamine	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625	Hexachloroethane	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625	Naphthalene-D8	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625	Nitrobenzene-d5	AH	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		p-cresol	AH	ug/L	6.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Nitrobenzene	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Isophorone	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Decafluorobiphenyl	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		2-Nitrophenol	AH	ug/L	6.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		2,4-Dimethylphenol	AH	ug/L	6.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		bis(2-Chloroethoxy)methane	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		2,4-Dichlorophenol	AH	ug/L	6.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		1,2,4-Trichlorobenzene	AH	ug/L	6.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Naphthalene	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		1-Fluoronaphthalene	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		alpha terpineol	AH	ug/L	6.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Hexachlorobutadiene	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		4-Chloro-3-methylphenol	AH	ug/L	6.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Acenaphthene-d10	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Hexachlorocyclopentadiene	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		2,3 dichloroaniline	AH	ug/L	6.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		2,4,6-Trichlorophenol	AH	ug/L	6.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		2-Chloronaphthalene	AH	ug/L	6.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Dimethyl phthalate	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Acenaphthylene	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		2,6-Dinitrotoluene	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Acenaphthene	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		2,4-Dinitrophenol	AH	ug/L	6.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		4-Nitrophenol	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		2,4-Dinitrotoluene	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Diethyl phthalate	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		4-Chlorophenyl phenyl ether	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Fluorene	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Phenanthrene-D10	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		4,6-Dinitro-o-cresol	AH	ug/L	7.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		n-nitrosodiphenylamine	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		1,2-Diphenylhydrazine	AH	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		2,4,6-Tribromophenol	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		4-Bromophenyl phenyl ether	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Hexachlorobenzene	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Pentachlorophenol	AH	ug/L	6.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		n-octadecane	AH	ug/L	6.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Phenanthrene	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Anthracene	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		carbazole	AH	ug/L	6.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Di-n-butyl phthalate	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Fluoranthene	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Chrysene-d12	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Benzidine	AH	ug/L	6.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Pyrene	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Butyl benzyl phthalate	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		3,3-Dichlorobenzidine	AH	ug/L	6.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Benzo(a)anthracene	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Chrysene	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		bis(2-ethylhexyl)phthalate	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Di-n-octyl phthalate	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Perylene-D12	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Benzo(b)fluoranthene	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Benzo(k)fluoranthene	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Benzo(a)pyrene	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Indeno(1,2,3-cd)pyrene	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Dibenzo(a,h)anthracene	AH	ug/L	3.0
AC07442	LM36	Little Miami Watershed	36	9/21/2012	11:10	\$625		Benzo(ghi)perylene	AH	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30		MF_CF	Fecal Coliform, Membrane Filter	210	CFU/100mL	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30		E-COLI	E.coli (Colilert)	161	MPN	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30		TDS	Total Dissolved Solids	460	mg/L	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30		BOD	Biochemical Oxygen Demand	1	mg/L	2
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30		SO4	Sulfate	56.0	mg/L	25.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30		CL	Chloride	96.4	mg/L	1.00
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30		TSS	Tot. Suspended Solids	10	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	SSC	Suspended Sediment Concentration	11.1	mg/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	HARD	Hardness as CaCO3	336	mg/l	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	COD	COD	3	mg/L	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	718	uS/cm	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	TEMP_FLD	Temperature (Field) Celsius	15.76	Deg C	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	PH_FLD	pH (Field)	8.15	S.U.	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	DO_FLD	Dissolved Oxygen (field) mg/L	9.63	mg/l	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	872	uS/cm	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$ICP	Antimony	0.00	mg/L	0.006
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$ICP	Barium	0.0531	mg/L	0.003
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$ICP	Calcium	103	mg/L	0.066
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$ICP	Chromium	0.00	mg/L	0.006
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$ICP	Copper	0.00899	mg/L	0.006
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$ICP	Iron	0.347	mg/L	0.018
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$ICP	Lead	0.00	mg/L	0.006
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$ICP	Magnesium	23.1	mg/L	0.021
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$ICP	Manganese	0.0402	mg/L	0.009
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$ICP	Nickel	0.00362	mg/L	0.003
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$ICP	Selenium	0.0250	mg/L	0.009
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$ICP	Silver	0.00	mg/L	0.003
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$ICP	Strontium	0.327	mg/L	0.009
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$ICP	Thallium	0.0250	mg/L	0.012
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$ICP	Tin	0.00	mg/L	0.006
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$ICP	Zinc	0.00	mg/L	0.006
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	PB_FU	Lead by Furnace	0.55	ug/L	1.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	AS_FU	Arsenic by Furnace	1.29	ug/L	1.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	CD_FU	Cadmium by Furnace	AA	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	CU_FU	Copper by Furnace	2.3	ug/L	1
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	NO2	Nitrite as N	0.0104	mg/l	0.005
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	Aldrin	AA	ug/L	0.02
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	Chlordane	AA	ug/L	0.10
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	Endrin	AA	ug/L	0.02
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	PCB 1260	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	Surr: Decachlorobiphenyl	0.983	%	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$PEST	Surr: Tetrachloro-m-xylene	0.756	%	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	Chloromethane	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	Bromomethane	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	Chloroethane	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	Acrolein	0	ug/L	100.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	Acrylonitrile	0	ug/L	100.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	Methylene Chloride	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	Chloroform	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	1,2-Dichloroethane-d4	49.0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	Benzene	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	Trichloroethene	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	Bromodichloromethane	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	Dibromochloromethane	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	Bromoform	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	Tetrachloroethene	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624		Toluene	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624		Toluene-d8	48.7	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624		Chlorobenzene	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624		Ethylbenzene	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624		Bromofluorobenzene	77.3	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624		2-Propanone	0	ug/L	60
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624		2-Butanone	0	ug/L	60
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624		Tetrahydrofuran	0	ug/L	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$624		TOTAL AMOUNT	325	ug/L	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		pyridine	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		2-Fluorophenol	31.9	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		aniline	0	ug/L	6.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Phenol-d6	23.3	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Phenol	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		n-decane	0	ug/L	6.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		o-cresol	0	ug/L	6.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		acetophenone	0	ug/L	6.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Hexachloroethane	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Nitrobenzene-d5	52.9	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		p-cresol	0	ug/L	6.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Nitrobenzene	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Isophorone	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Decafluorobiphenyl	45.3	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Naphthalene	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		1-Fluoronaphthalene	49.4	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		alpha terpineol	0	ug/L	6.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Acenaphthylene	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Acenaphthene	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		4-Nitrophenol	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Diethyl phthalate	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Fluorene	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		2,4,6-Tribromophenol	64.6	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Hexachlorobenzene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Pentachlorophenol	0	ug/L	6.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		n-octadecane	0	ug/L	6.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Phenanthrene	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Anthracene	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		carbazole	0	ug/L	6.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Fluoranthene	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Benzidine	0	ug/L	6.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Pyrene	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Chrysene	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Hexachloroethane	0	ug/L	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Diethylphthalate	0	ug/L	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	8	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		7-Oxabicyclo[4.1.0]heptane T	3	ug/L	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		2-Cyclohexen-1-one T	6	ug/L	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		2-Chlorocyclohexanol T	1	ug/L	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		Diethyltoluamide T	2	ug/L	
AC07443	LM99	Little Miami Watershed	99	9/21/2012	11:30	\$625		TOTAL AMOUNT	582	ug/L	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		MF_CF	Fecal Coliform, Membrane Filter	64	CFU/100mL	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		E-COLI	E.coli (Colilert)	73	MPN	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		TDS	Total Dissolved Solids	330	mg/L	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		BOD	Biochemical Oxygen Demand	1	mg/L	2
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		SO4	Sulfate	48.5	mg/L	12.5
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		CL	Chloride	91.6	mg/L	1.00
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		TSS	Tot. Suspended Solids	24	mg/L	2
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		SSC	Suspended Sediment Concentration	11.8	mg/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		HARD	Hardness as CaCO3	270	mg/l	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		COD	COD	17	mg/L	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	981	uS/cm	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		TEMP_FLD	Temperature (Field) Celsius	19.16	Deg C	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		PH_FLD	pH (Field)	7.85	S.U.	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		DO_FLD	Dissolved Oxygen (field) mg/L	7.66	mg/l	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		CONDUCTIVITY	Specific Conductivity (uS/cm)	767	uS/cm	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		\$ICP	Aluminum	0.00	mg/L	0.348
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		\$ICP	Antimony	0.00	mg/L	0.006
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		\$ICP	Arsenic	0.00	mg/L	0.012
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		\$ICP	Barium	0.0600	mg/L	0.003
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		\$ICP	Beryllium	0.00	mg/L	0.009
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		\$ICP	Cadmium	0.00	mg/L	0.012
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		\$ICP	Calcium	74.1	mg/L	0.066
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		\$ICP	Chromium	0.00	mg/L	0.006
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		\$ICP	Cobalt	0.00	mg/L	0.006
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		\$ICP	Copper	0.00827	mg/L	0.006
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		\$ICP	Iron	0.573	mg/L	0.018
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		\$ICP	Lead	0.00	mg/L	0.006
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00		\$ICP	Magnesium	22.0	mg/L	0.021



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$ICP	Manganese	0.0721	mg/L	0.009
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$ICP	Nickel	0.00426	mg/L	0.003
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$ICP	Selenium	0.0187	mg/L	0.009
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$ICP	Silver	0.00	mg/L	0.003
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$ICP	Strontium	0.278	mg/L	0.009
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$ICP	Thallium	0.0144	mg/L	0.012
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$ICP	Tin	0.00	mg/L	0.006
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$ICP	Zinc	0.00827	mg/L	0.006
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	PB_FU	Lead by Furnace	0.6	ug/L	1.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	AS_FU	Arsenic by Furnace	1.62	ug/L	1.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	CU_FU	Copper by Furnace	3.6	ug/L	1
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	NH3	Ammonia as N	0	mg/L	0.5
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	NO3NO2	Nitrate + Nitrite	1.88	mg/L	0.5
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	NO2	Nitrite as N	0.0176	mg/l	0.005
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	NO3	Nitrate as N (calculated)	1.8624	mg/l	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	CHLOROPHYLL	Chlorophyll	9.08	mg/m3	1.00
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	Aldrin	AA	ug/L	0.02
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	Chlordane	AA	ug/L	0.10
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	Endrin	AA	ug/L	0.02
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	Toxaphene	AA	ug/L	1.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	Surr: Decachlorobiphenyl	0.980	%	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$PEST	Surr: Tetrachloro-m-xylene	0.866	%	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624	Chloromethane	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624	Bromomethane	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624	Chloroethane	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624	Acrolein	0	ug/L	100.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624	Acrylonitrile	0	ug/L	100.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624	Methylene Chloride	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624	Chloroform	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624	1,2-Dichloroethane-d4	61.3	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624	Benzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		Trichloroethene	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		Bromodichloromethane	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		Bromoform	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		Toluene	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		Toluene-d8	47.8	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		Chlorobenzene	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		Ethylbenzene	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		Bromofluorobenzene	86.5	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		2-Propanone	0	ug/L	60
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		2-Butanone	0	ug/L	60
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		Tetrahydrofuran	0	ug/L	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		2-chloroethoxy ethene	0	ug/L	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$624		TOTAL AMOUNT	346	ug/L	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625		pyridine	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625		2-Fluorophenol	17.4	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625		aniline	0	ug/L	6.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625		Phenol-d6	17.5	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625		Phenol	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	2-Chlorophenol	0	ug/L	6.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	n-decane	0	ug/L	6.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	o-cresol	0	ug/L	6.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	acetophenone	0	ug/L	6.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Hexachloroethane	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Nitrobenzene-d5	33.2	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	p-cresol	0	ug/L	6.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Nitrobenzene	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Isophorone	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Decafluorobiphenyl	26.6	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	2-Nitrophenol	0	ug/L	6.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Naphthalene	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	1-Fluoronaphthalene	31.4	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	alpha terpineol	0	ug/L	6.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Acenaphthylene	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Acenaphthene	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	2,4-Dinitrophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	4-Nitrophenol	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Diethyl phthalate	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Fluorene	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	2,4,6-Tribromophenol	59.2	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Pentachlorophenol	0	ug/L	6.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	n-octadecane	0	ug/L	6.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Phenanthrene	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Anthracene	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	carbazole	0	ug/L	6.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Fluoranthene	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Benzidine	0	ug/L	6.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Pyrene	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Chrysene	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Perylene-D12	50.0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625		Hexachloroethane	0	ug/L	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625		2,3-Dichloroaniline	0	ug/L	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625		Diethylphthalate	0	ug/L	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625		Benzo[ghi]perylene	0	ug/L	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	9	ug/L	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625		7-Oxabicyclo[4.1.0]heptane T	3	ug/L	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625		2-Cyclohexen-1-one T	6	ug/L	
AC07444	LM17	Little Miami Watershed	17 (3261-01)	9/21/2012	12:00	\$625		TOTAL AMOUNT	485	ug/L	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30		MF_CF	Fecal Coliform, Membrane Filter	64	CFU/100mL	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30		E-COLI	E.coli (Colilert)	112	MPN	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30		TDS	Total Dissolved Solids	470	mg/L	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30		SO4	Sulfate	47.9	mg/L	25.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30		CL	Chloride	133	mg/L	4.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30		TSS	Tot. Suspended Solids	12	mg/L	2
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30		SSC	Suspended Sediment Concentration	9.9	mg/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30		HARD	Hardness as CaCO3	304	mg/l	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30		COD	COD	8	mg/L	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	748	uS/cm	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30		TEMP_FLD	Temperature (Field) Celsius	16.37	Deg C	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30		PH_FLD	pH (Field)	8.52	S.U.	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30		DO_FLD	Dissolved Oxygen (field) mg/L	10.00	mg/l	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30		CONDUCTIVITY	Specific Conductivity (uS/cm)	895	uS/cm	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30		\$ICP	Aluminum	0.00	mg/L	0.348
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30		\$ICP	Antimony	0.00	mg/L	0.006
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30		\$ICP	Arsenic	0.00	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$ICP	Barium	0.0742	mg/L	0.003
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$ICP	Calcium	82.7	mg/L	0.066
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$ICP	Chromium	0.00	mg/L	0.006
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$ICP	Copper	0.00	mg/L	0.006
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$ICP	Iron	0.332	mg/L	0.018
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$ICP	Lead	0.00	mg/L	0.006
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$ICP	Magnesium	31.0	mg/L	0.021
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$ICP	Manganese	0.0210	mg/L	0.009
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$ICP	Nickel	0.00	mg/L	0.003
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$ICP	Selenium	0.0233	mg/L	0.009
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$ICP	Silver	0.00	mg/L	0.003
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$ICP	Strontium	0.349	mg/L	0.009
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$ICP	Thallium	0.0168	mg/L	0.012
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$ICP	Tin	0.00	mg/L	0.006
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$ICP	Zinc	0.0115	mg/L	0.006
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	PB_FU	Lead by Furnace	0.37	ug/L	1.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	AS_FU	Arsenic by Furnace	1.13	ug/L	1.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	CU_FU	Copper by Furnace	2.9	ug/L	1
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	NO3NO2	Nitrate + Nitrite	2.92	mg/L	0.5
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	NO2	Nitrite as N	0.0134	mg/l	0.005
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	NO3	Nitrate as N (calculated)	2.9066	mg/l	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	CHLOROPHYLL	Chlorophyll	5.34	mg/m3	1.00
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	Aldrin	AA	ug/L	0.02
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	Beta-BHC	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	Chlordane	AA	ug/L	0.10
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	Endrin	AA	ug/L	0.02
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	Surr: Decachlorobiphenyl	0.875	%	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$PEST	Surr: Tetrachloro-m-xylene	1.04	%	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624	Chloromethane	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624	Bromomethane	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624	Chloroethane	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624	Acrolein	0	ug/L	100.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624	Acrylonitrile	0	ug/L	100.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		Methylene Chloride	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		Chloroform	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		1,2-Dichloroethane-d4	51.5	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		Benzene	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		Trichloroethene	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		Bromoform	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		Toluene	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		Toluene-d8	48.6	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		Chlorobenzene	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		Ethylbenzene	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		Bromofluorobenzene	74.8	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		2-Propanone	0	ug/L	60
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		2-Butanone	0	ug/L	60
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		Tetrahydrofuran	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$624		TOTAL AMOUNT	325	ug/L	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		pyridine	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		2-Fluorophenol	30.6	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		aniline	0	ug/L	6.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Phenol-d6	26.1	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Phenol	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		n-decane	0	ug/L	6.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		o-cresol	0	ug/L	6.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		acetophenone	0	ug/L	6.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Hexachloroethane	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Nitrobenzene-d5	55.0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		p-cresol	0	ug/L	6.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Nitrobenzene	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Isophorone	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Decafluorobiphenyl	41.3	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Naphthalene	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		1-Fluoronaphthalene	49.0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		alpha terpineol	0	ug/L	6.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Acenaphthylene	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Acenaphthene	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		4-Nitrophenol	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Diethyl phthalate	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Fluorene	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		2,4,6-Tribromophenol	64.9	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Pentachlorophenol	0	ug/L	6.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		n-octadecane	0	ug/L	6.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Phenanthrene	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Anthracene	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		carbazole	0	ug/L	6.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Fluoranthene	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Benzidine	0	ug/L	6.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Pyrene	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Chrysene	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Hexachloroethane	0	ug/L	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Diethylphthalate	0	ug/L	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	13	ug/L	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		2-Cyclohexen-1-one T	6	ug/L	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		2-Propenal, 3-(2,2,6-trimethyl-7-oxabi T	1	ug/L	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Tetradecanoic acid T	1	ug/L	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		n-Hexadecanoic acid T	5	ug/L	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		Decanedioic acid, dibutyl ester T	1	ug/L	
AC07499	LM01	Little Miami Watershed	1	9/24/2012	11:30	\$625		TOTAL AMOUNT	586	ug/L	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45		MF_CF	Fecal Coliform, Membrane Filter	43	CFU/100mL	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45		E-COLI	E.coli (Colilert)	86	MPN	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45		TDS	Total Dissolved Solids	460	mg/L	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45		SO4	Sulfate	44.8	mg/L	12.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	CL	Chloride	108	mg/L	1.00
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	TSS	Tot. Suspended Solids	8	mg/L	2
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	SSC	Suspended Sediment Concentration	6.6	mg/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	HARD	Hardness as CaCO3	302	mg/l	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	COD	COD	4	mg/L	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	865	uS/cm	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	TEMP_FLD	Temperature (Field) Celsius	15.71	Deg C	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	PH_FLD	pH (Field)	8.53	S.U.	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	DO_FLD	Dissolved Oxygen (field) mg/L	9.68	mg/l	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	808	uS/cm	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$ICP	Aluminum	0.00	mg/L	0.348
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$ICP	Antimony	0.00	mg/L	0.006
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$ICP	Arsenic	0.00	mg/L	0.012
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$ICP	Barium	0.0774	mg/L	0.003
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$ICP	Calcium	82.4	mg/L	0.066
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$ICP	Chromium	0.00	mg/L	0.006
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$ICP	Copper	0.00	mg/L	0.006
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$ICP	Iron	0.311	mg/L	0.018
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$ICP	Lead	0.00	mg/L	0.006
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$ICP	Magnesium	32.3	mg/L	0.021
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$ICP	Manganese	0.0190	mg/L	0.009
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$ICP	Nickel	0.00	mg/L	0.003
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$ICP	Selenium	0.0303	mg/L	0.009
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$ICP	Silver	0.00	mg/L	0.003
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$ICP	Strontium	0.348	mg/L	0.009
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$ICP	Thallium	0.0290	mg/L	0.012
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$ICP	Tin	0.00	mg/L	0.006
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$ICP	Zinc	0.00802	mg/L	0.006
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	PB_FU	Lead by Furnace	0.30	ug/L	1.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	AS_FU	Arsenic by Furnace	1.30	ug/L	1.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	CU_FU	Copper by Furnace	2.3	ug/L	1
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	NH3	Ammonia as N	0	mg/L	0.5
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	NO3NO2	Nitrate + Nitrite	1.91	mg/L	0.5
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	TKN	Total Kjeldahl Nitrogen	0.5389	mg/L	0.5
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	NO2	Nitrite as N	0.0154	mg/l	0.005
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	NO3	Nitrate as N (calculated)	1.8946	mg/l	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	CHLOROPHYLL	Chlorophyll	5.34	mg/m3	1.00
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	Aldrin	AA	ug/L	0.02
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	Chlordane	AA	ug/L	0.10
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	Dieldrin	AA	ug/L	0.02
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	Endrin	AA	ug/L	0.02
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	Heptachlor	AA	ug/L	0.02
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	Toxaphene	AA	ug/L	1.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	PCB 1016	AA	ug/L	0.5
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	PCB 1221	AA	ug/L	0.5
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	PCB 1232	AA	ug/L	0.5
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	PCB 1242	AA	ug/L	0.5
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	PCB 1248	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	PCB 1254	AA	ug/L	0.5
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	PCB 1260	AA	ug/L	0.5
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	Surr: Decachlorobiphenyl	0.791	%	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$PEST	Surr: Tetrachloro-m-xylene	0.948	%	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	Chloromethane	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	Vinyl Chloride	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	Bromomethane	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	Chloroethane	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	Acrolein	0	ug/L	100.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	Acrylonitrile	0	ug/L	100.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	Methylene Chloride	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	Chloroform	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	1,2-Dichloroethane-d4	50.8	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	Benzene	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	Trichloroethene	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	Bromodichloromethane	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	Dibromochloromethane	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	Bromoform	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624		Tetrachloroethene	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624		Toluene	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624		Toluene-d8	49.1	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624		Chlorobenzene	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624		Ethylbenzene	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624		Bromofluorobenzene	76.5	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624		2-Propanone	0	ug/L	60
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624		2-Butanone	0	ug/L	60
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624		Tetrahydrofuran	0	ug/L	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624		2-chloroethoxy ethene	0	ug/L	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$624		TOTAL AMOUNT	326	ug/L	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625		pyridine	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625		2-Fluorophenol	14.8	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625		aniline	0	ug/L	6.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625		Phenol-d6	13.9	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625		Phenol	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625		2-Chlorophenol	0	ug/L	6.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625		n-decane	0	ug/L	6.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625		o-cresol	0	ug/L	6.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625		acetophenone	0	ug/L	6.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625		Hexachloroethane	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625		Nitrobenzene-d5	31.1	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625		p-cresol	0	ug/L	6.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Nitrobenzene	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Isophorone	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Decafluorobiphenyl	21.3	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	2-Nitrophenol	0	ug/L	6.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Naphthalene	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	1-Fluoronaphthalene	27.3	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	alpha terpineol	0	ug/L	6.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Acenaphthylene	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Acenaphthene	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	4-Nitrophenol	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Diethyl phthalate	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Fluorene	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	2,4,6-Tribromophenol	49.2	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Pentachlorophenol	0	ug/L	6.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	n-octadecane	0	ug/L	6.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Phenanthrene	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Anthracene	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	carbazole	0	ug/L	6.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Fluoranthene	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Benzidine	0	ug/L	6.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Pyrene	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Chrysene	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Perylene-D12	50.0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Hexachloroethane	0	ug/L	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	2,3-Dichloroaniline	0	ug/L	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Diethylphthalate	0	ug/L	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Dibenz[a,h]anthracene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Benzo[ghi]perylene	0	ug/L	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	13	ug/L	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	7-Oxabicyclo[4.1.0]heptane T	3	ug/L	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	2-Cyclohexen-1-one T	6	ug/L	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	Cyclohexane, methylene- T	1	ug/L	
AC07500	LM02	Little Miami Watershed	2 (3261-09)	9/24/2012	11:45	\$625	TOTAL AMOUNT	458	ug/L	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	MF_CF	Fecal Coliform, Membrane Filter	93	CFU/100mL	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	E-COLI	E.coli (Colilert)	84	MPN	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	TDS	Total Dissolved Solids	450	mg/L	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	SO4	Sulfate	45.0	mg/L	12.5
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	CL	Chloride	104	mg/L	1.00
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	TSS	Tot. Suspended Solids	18	mg/L	2
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	SSC	Suspended Sediment Concentration	13.7	mg/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	HARD	Hardness as CaCO3	298	mg/l	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	COD	COD	2	mg/L	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	654	uS/cm	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	TEMP_FLD	Temperature (Field) Celsius	15.89	Deg C	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	PH_FLD	pH (Field)	8.54	S.U.	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	DO_FLD	Dissolved Oxygen (field) mg/L	9.92	mg/l	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	792	uS/cm	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$ICP	Antimony	0.00	mg/L	0.006
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$ICP	Barium	0.0724	mg/L	0.003
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$ICP	Calcium	77.0	mg/L	0.066
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$ICP	Chromium	0.00	mg/L	0.006
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$ICP	Copper	0.00	mg/L	0.006
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$ICP	Iron	0.349	mg/L	0.018
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$ICP	Lead	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$ICP	Magnesium	29.8	mg/L	0.021
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$ICP	Manganese	0.0232	mg/L	0.009
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$ICP	Nickel	0.00	mg/L	0.003
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$ICP	Selenium	0.0199	mg/L	0.009
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$ICP	Silver	0.00	mg/L	0.003
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$ICP	Strontium	0.327	mg/L	0.009
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$ICP	Thallium	0.0156	mg/L	0.012
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$ICP	Tin	0.00	mg/L	0.006
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$ICP	Zinc	0.00	mg/L	0.006
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	PB_FU	Lead by Furnace	0.42	ug/L	1.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	AS_FU	Arsenic by Furnace	1.34	ug/L	1.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	CU_FU	Copper by Furnace	2.4	ug/L	1
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	NH3	Ammonia as N	0	mg/L	0.5
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	NO3NO2	Nitrate + Nitrite	2.01	mg/L	0.5
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	NO2	Nitrite as N	0.0146	mg/l	0.005
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	NO3	Nitrate as N (calculated)	1.9954	mg/l	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	Aldrin	AA	ug/L	0.02
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	Chlordane	AA	ug/L	0.10
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	Endosulfan II	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	Endrin	AA	ug/L	0.02
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	Toxaphene	AA	ug/L	1.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	Surr: Decachlorobiphenyl	0.836	%	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$PEST	Surr: Tetrachloro-m-xylene	0.936	%	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624	Chloromethane	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624	Bromomethane	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624	Chloroethane	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624	Acrolein	0	ug/L	100.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624	Acrylonitrile	0	ug/L	100.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624	Methylene Chloride	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624	Chloroform	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624	1,2-Dichloroethane-d4	50.9	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624	Carbon Tetrachloride	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		Benzene	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		Trichloroethene	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		Bromodichloromethane	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		Bromoform	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		Toluene	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		Toluene-d8	48.4	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		Chlorobenzene	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		Ethylbenzene	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		Bromofluorobenzene	74.2	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		2-Propanone	0	ug/L	60
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		2-Butanone	0	ug/L	60
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		Tetrahydrofuran	0	ug/L	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		2-chloroethoxy ethene	0	ug/L	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$624		TOTAL AMOUNT	324	ug/L	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		pyridine	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		2-Fluorophenol	47.3	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		aniline	0	ug/L	6.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Phenol-d6	35.2	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Phenol	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		2-Chlorophenol	0	ug/L	6.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		n-decane	0	ug/L	6.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		o-cresol	0	ug/L	6.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		acetophenone	0	ug/L	6.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Hexachloroethane	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Nitrobenzene-d5	70.4	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		p-cresol	0	ug/L	6.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Nitrobenzene	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Isophorone	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Decafluorobiphenyl	54.9	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		2-Nitrophenol	0	ug/L	6.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Naphthalene	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		1-Fluoronaphthalene	65.7	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		alpha terpineol	0	ug/L	6.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Acenaphthylene	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Acenaphthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		4-Nitrophenol	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Diethyl phthalate	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Fluorene	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		2,4,6-Tribromophenol	73.7	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Pentachlorophenol	0	ug/L	6.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		n-octadecane	0	ug/L	6.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Phenanthrene	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Anthracene	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		carbazole	0	ug/L	6.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Fluoranthene	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Benzidine	0	ug/L	6.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Pyrene	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Chrysene	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Perylene-D12	50.0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625		Benzo(a)pyrene	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625	Hexachloroethane	0	ug/L	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625	2,3-Dichloroaniline	0	ug/L	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625	Diethylphthalate	0	ug/L	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625	Benzo[ghi]perylene	0	ug/L	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	9	ug/L	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625	2-Cyclohexen-1-one T	9	ug/L	
AC07501	LM03	Little Miami Watershed	3	9/24/2012	12:00	\$625	TOTAL AMOUNT	665	ug/L	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	MF_CF	Fecal Coliform, Membrane Filter	79	CFU/100mL	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	E-COLI	E.coli (Colilert)	411	MPN	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	TDS	Total Dissolved Solids	530	mg/L	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	SO4	Sulfate	71.2	mg/L	12.5
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	CL	Chloride	184	mg/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	TSS	Tot. Suspended Solids	12	mg/L	2
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	SSC	Suspended Sediment Concentration	30.4	mg/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	HARD	Hardness as CaCO3	274	mg/l	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	COD	COD	12	mg/L	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1084	uS/cm	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	TEMP_FLD	Temperature (Field) Celsius	21.46	Deg C	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	PH_FLD	pH (Field)	7.34	S.U.	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	DO_FLD	Dissolved Oxygen (field) mg/L	7.45	mg/l	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	1163	uS/cm	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$ICP	Aluminum	0.00	mg/L	0.348
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$ICP	Antimony	0.00	mg/L	0.006
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$ICP	Arsenic	0.00	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$ICP	Barium	0.0597	mg/L	0.003
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$ICP	Calcium	78.7	mg/L	0.066
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$ICP	Chromium	0.00	mg/L	0.006
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$ICP	Copper	0.0108	mg/L	0.006
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$ICP	Iron	0.770	mg/L	0.018
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$ICP	Lead	0.00	mg/L	0.006
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$ICP	Magnesium	28.0	mg/L	0.021
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$ICP	Manganese	0.0448	mg/L	0.009
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$ICP	Nickel	0.00	mg/L	0.003
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$ICP	Selenium	0.0177	mg/L	0.009
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$ICP	Silver	0.00	mg/L	0.003
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$ICP	Strontium	0.341	mg/L	0.009
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$ICP	Thallium	0.0140	mg/L	0.012
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$ICP	Tin	0.00	mg/L	0.006
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$ICP	Zinc	0.0154	mg/L	0.006
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	PB_FU	Lead by Furnace	0.58	ug/L	1.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	AS_FU	Arsenic by Furnace	1.15	ug/L	1.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	CU_FU	Copper by Furnace	15.6	ug/L	1
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	NH3	Ammonia as N	0	mg/L	0.5
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	NO3NO2	Nitrate + Nitrite	9.06	mg/L	0.5
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	TKN	Total Kjeldahl Nitrogen	1.934	mg/L	0.5
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	TKP	Total Kjeldahl Phosphorus	1.018	mg/L	0.5
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	NO2	Nitrite as N	0.0371	mg/l	0.005
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	NO3	Nitrate as N (calculated)	9.0229	mg/l	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	CHLOROPHYLL	Chlorophyll	24.6	mg/m3	1.00
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	Aldrin	AA	ug/L	0.02
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	Beta-BHC	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	Chlordane	AA	ug/L	0.10
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	Dieldrin	AA	ug/L	0.02
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	Endrin	AA	ug/L	0.02
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	Heptachlor	AA	ug/L	0.02
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	Toxaphene	AA	ug/L	1.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	PCB 1016	AA	ug/L	0.5
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	PCB 1221	AA	ug/L	0.5
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	PCB 1232	AA	ug/L	0.5
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	PCB 1242	AA	ug/L	0.5
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	PCB 1248	AA	ug/L	0.5
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	PCB 1254	AA	ug/L	0.5
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	PCB 1260	AA	ug/L	0.5
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	Surr: Decachlorobiphenyl	0.936	%	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$PEST	Surr: Tetrachloro-m-xylene	1.11	%	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624	Chloromethane	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624	Vinyl Chloride	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624	Bromomethane	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624	Chloroethane	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624	Acrolein	0	ug/L	100.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624	Acrylonitrile	0	ug/L	100.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		Methylene Chloride	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		Chloroform	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		1,2-Dichloroethane-d4	51.4	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		Benzene	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		Trichloroethene	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		Bromodichloromethane	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		Dibromochloromethane	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		Bromoform	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		Tetrachloroethene	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		Toluene	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		Toluene-d8	48.6	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		Chlorobenzene	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		Ethylbenzene	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		Bromofluorobenzene	75.8	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		2-Propanone	0	ug/L	60
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		2-Butanone	0	ug/L	60
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624		Tetrahydrofuran	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624	2-chloroethoxy ethene	0	ug/L	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$624	TOTAL AMOUNT	326	ug/L	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	pyridine	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	2-Fluorophenol	44.9	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	aniline	0	ug/L	6.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	Phenol-d6	29.8	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	Phenol	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	2-Chlorophenol	0	ug/L	6.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	n-decane	0	ug/L	6.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	o-cresol	0	ug/L	6.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	acetophenone	0	ug/L	6.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	Hexachloroethane	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	Nitrobenzene-d5	72.7	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	p-cresol	0	ug/L	6.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	Nitrobenzene	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	Isophorone	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	Decafluorobiphenyl	64.0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	2-Nitrophenol	0	ug/L	6.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	Naphthalene	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	1-Fluoronaphthalene	69.6	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	alpha terpineol	0	ug/L	6.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Acenaphthylene	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Acenaphthene	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		4-Nitrophenol	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Diethyl phthalate	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Fluorene	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		2,4,6-Tribromophenol	79.1	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Pentachlorophenol	0	ug/L	6.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		n-octadecane	0	ug/L	6.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Phenanthrene	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Anthracene	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		carbazole	0	ug/L	6.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Fluoranthene	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Benzidine	0	ug/L	6.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Pyrene	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Butyl benzyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Chrysene	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Perylene-D12	50.0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Hexachloroethane	0	ug/L	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		2,3-Dichloroaniline	0	ug/L	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Diethylphthalate	0	ug/L	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Benzo[ghi]perylene	0	ug/L	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	8	ug/L	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		7-Oxabicyclo[4.1.0]heptane T	5	ug/L	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		2-Cyclohexen-1-one T	8	ug/L	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Pentane, 2,3,4-trimethyl- T	2	ug/L	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		2-Chlorocyclohexanol T	1	ug/L	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Bi-2-cyclohexen-1-yl T	1	ug/L	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Butane, 1,2,3,4-tetrachloro-1,1,2,3,4, T	1	ug/L	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		trans-Decalin, 2-methyl- T	1	ug/L	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		Bis(2-ethylhexyl) phthalate T2	1	ug/L	
AC07502	LM04	Little Miami Watershed	4	9/24/2012	12:10	\$625		TOTAL AMOUNT	676	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20		MF_CF	Fecal Coliform, Membrane Filter	114	CFU/100mL	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20		E-COLI	E.coli (Colilert)	82	MPN	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	TDS	Total Dissolved Solids	440	mg/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	SO4	Sulfate	47.8	mg/L	12.5
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	CL	Chloride	104	mg/L	1.00
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	TSS	Tot. Suspended Solids	6	mg/L	2
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	SSC	Suspended Sediment Concentration	10.5	mg/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	HARD	Hardness as CaCO3	292	mg/l	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	COD	COD	5	mg/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	655	uS/cm	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	TEMP_FLD	Temperature (Field) Celsius	15.86	Deg C	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	PH_FLD	pH (Field)	8.76	S.U.	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	DO_FLD	Dissolved Oxygen (field) mg/L	10.56	mg/l	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	794	uS/cm	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$ICP	Aluminum	0.00	mg/L	0.348
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$ICP	Antimony	0.00	mg/L	0.006
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$ICP	Arsenic	0.00	mg/L	0.012
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$ICP	Barium	0.0748	mg/L	0.003
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$ICP	Calcium	79.7	mg/L	0.066
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$ICP	Chromium	0.00	mg/L	0.006
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$ICP	Copper	0.00	mg/L	0.006
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$ICP	Iron	0.373	mg/L	0.018
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$ICP	Lead	0.00	mg/L	0.006
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$ICP	Magnesium	30.3	mg/L	0.021
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$ICP	Manganese	0.0267	mg/L	0.009
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$ICP	Nickel	0.00	mg/L	0.003
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$ICP	Selenium	0.0224	mg/L	0.009
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$ICP	Silver	0.00	mg/L	0.003
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$ICP	Strontium	0.344	mg/L	0.009
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$ICP	Thallium	0.0144	mg/L	0.012
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$ICP	Tin	0.00	mg/L	0.006



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$ICP	Zinc	0.00	mg/L	0.006
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	PB_FU	Lead by Furnace	0.40	ug/L	1.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	AS_FU	Arsenic by Furnace	1.18	ug/L	1.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	CU_FU	Copper by Furnace	2.8	ug/L	1
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	NH3	Ammonia as N	0	mg/L	0.5
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	NO3NO2	Nitrate + Nitrite	2.11	mg/L	0.5
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	NO2	Nitrite as N	0.0130	mg/l	0.005
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	NO3	Nitrate as N (calculated)	2.0970	mg/l	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	Aldrin	AA	ug/L	0.02
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	Chlordane	AA	ug/L	0.10
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	Dieldrin	AA	ug/L	0.02
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	Endrin	AA	ug/L	0.02
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	Heptachlor	AA	ug/L	0.02
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	Toxaphene	AA	ug/L	1.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	PCB 1016	AA	ug/L	0.5
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	PCB 1221	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	PCB 1232	AA	ug/L	0.5
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	PCB 1242	AA	ug/L	0.5
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	PCB 1248	AA	ug/L	0.5
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	PCB 1254	AA	ug/L	0.5
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	PCB 1260	AA	ug/L	0.5
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	Surr: Decachlorobiphenyl	0.809	%	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$PEST	Surr: Tetrachloro-m-xylene	0.981	%	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Chloromethane	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Vinyl Chloride	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Bromomethane	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Chloroethane	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Acrolein	0	ug/L	100.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Acrylonitrile	0	ug/L	100.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Methylene Chloride	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Chloroform	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	1,2-Dichloroethane-d4	53.1	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Benzene	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Trichloroethene	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Bromodichloromethane	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	1,1,2-Trichloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Dibromochloromethane	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Bromoform	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Tetrachloroethene	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Toluene	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Toluene-d8	47.7	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Chlorobenzene	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Ethylbenzene	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Bromofluorobenzene	68.1	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	2-Propanone	0	ug/L	60
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	2-Butanone	0	ug/L	60
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	Tetrahydrofuran	0	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	2-chloroethoxy ethene	0	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$624	TOTAL AMOUNT	319	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	pyridine	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	2-Fluorophenol	46.6	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	aniline	0	ug/L	6.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Phenol-d6	32.7	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Phenol	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	2-Chlorophenol	0	ug/L	6.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	n-decane	0	ug/L	6.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	o-cresol	0	ug/L	6.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	acetophenone	0	ug/L	6.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Hexachloroethane	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Nitrobenzene-d5	76.8	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	p-cresol	0	ug/L	6.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Nitrobenzene	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Isophorone	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Decafluorobiphenyl	60.5	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	2-Nitrophenol	0	ug/L	6.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Naphthalene	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	1-Fluoronaphthalene	71.2	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	alpha terpineol	0	ug/L	6.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Acenaphthylene	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Acenaphthene	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	4-Nitrophenol	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Diethyl phthalate	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Fluorene	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	2,4,6-Tribromophenol	73.5	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Pentachlorophenol	0	ug/L	6.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	n-octadecane	0	ug/L	6.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Phenanthrene	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Anthracene	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	carbazole	0	ug/L	6.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Fluoranthene	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Benzidine	0	ug/L	6.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Pyrene	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Chrysene	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Perylene-D12	50.0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Hexachloroethane	0	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	2,3-Dichloroaniline	0	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Diethylphthalate	0	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625	Benzo[b]fluoranthene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625		Benzo[ghi]perylene	0	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	8	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625		7-Oxabicyclo[4.1.0]heptane T	5	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625		2-Cyclohexen-1-one T	9	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625		Hexane, 3,3,4-trimethyl- T	2	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625		2-Chlorocyclohexanol T	2	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625		Pyridine, 3-butyl-, 1-oxide T	1	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625		Cyclohexanone, 5-methyl-2-(1-methyleth T	3	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625		Cyclopenta[g]-2-benzopyran, 1,3,4,6,7, T	2	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625		2-Amino-4-hydroxy-6,7,8-trimethylpteri T	2	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625		n-Hexadecanoic acid T	4	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625		Octadecanoic acid T	1	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625		Cholesterol T	2	ug/L	
AC07503	LM05	Little Miami Watershed	5 (3261-08)	9/24/2012	12:20	\$625		TOTAL AMOUNT	678	ug/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40		MF_CF	Fecal Coliform, Membrane Filter	100	CFU/100mL	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40		E-COLI	E.coli (Colilert)	78	MPN	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40		TDS	Total Dissolved Solids	380	mg/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40		SO4	Sulfate	50.0	mg/L	12.5
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40		CL	Chloride	107	mg/L	1.00
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40		TSS	Tot. Suspended Solids	6	mg/L	2
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40		SSC	Suspended Sediment Concentration	10.1	mg/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40		HARD	Hardness as CaCO3	282	mg/l	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40		COD	COD	5	mg/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	657	uS/cm	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40		TEMP_FLD	Temperature (Field) Celsius	16.32	Deg C	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40		PH_FLD	pH (Field)	8.54	S.U.	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40		DO_FLD	Dissolved Oxygen (field) mg/L	8.30	mg/l	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40		CONDUCTIVITY	Specific Conductivity (uS/cm)	787	uS/cm	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40		\$ICP	Aluminum	0.00	mg/L	0.348

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$ICP	Antimony	0.00	mg/L	0.006
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$ICP	Arsenic	0.00	mg/L	0.012
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$ICP	Barium	0.0741	mg/L	0.003
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$ICP	Calcium	80.9	mg/L	0.066
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$ICP	Chromium	0.00	mg/L	0.006
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$ICP	Copper	0.00628	mg/L	0.006
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$ICP	Iron	0.446	mg/L	0.018
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$ICP	Lead	0.00	mg/L	0.006
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$ICP	Magnesium	30.0	mg/L	0.021
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$ICP	Manganese	0.0324	mg/L	0.009
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$ICP	Nickel	0.00383	mg/L	0.003
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$ICP	Selenium	0.0141	mg/L	0.009
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$ICP	Silver	0.00	mg/L	0.003
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$ICP	Strontium	0.342	mg/L	0.009
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$ICP	Thallium	0.00	mg/L	0.012
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$ICP	Tin	0.00	mg/L	0.006
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$ICP	Zinc	0.00856	mg/L	0.006
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	PB_FU	Lead by Furnace	0.43	ug/L	1.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	AS_FU	Arsenic by Furnace	1.15	ug/L	1.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	CU_FU	Copper by Furnace	2.8	ug/L	1
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	NH3	Ammonia as N	0	mg/L	0.5
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	NO3NO2	Nitrate + Nitrite	1.84	mg/L	0.5
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	NO2	Nitrite as N	0.0150	mg/l	0.005
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	NO3	Nitrate as N (calculated)	1.8250	mg/l	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	Aldrin	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	Chlordane	AA	ug/L	0.10
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	Dieldrin	AA	ug/L	0.02
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	Endrin	AA	ug/L	0.02
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	Heptachlor	AA	ug/L	0.02
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	Toxaphene	AA	ug/L	1.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	PCB 1016	AA	ug/L	0.5
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	PCB 1221	AA	ug/L	0.5
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	PCB 1232	AA	ug/L	0.5
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	PCB 1242	AA	ug/L	0.5
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	PCB 1248	AA	ug/L	0.5
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	PCB 1254	AA	ug/L	0.5
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	PCB 1260	AA	ug/L	0.5
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	Surr: Decachlorobiphenyl	0.861	%	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$PEST	Surr: Tetrachloro-m-xylene	0.902	%	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624	Chloromethane	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624	Vinyl Chloride	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624	Bromomethane	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624	Chloroethane	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624	Acrolein	0	ug/L	100.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		Acrylonitrile	0	ug/L	100.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		Methylene Chloride	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		Chloroform	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		1,2-Dichloroethane-d4	51.3	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		Benzene	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		Trichloroethene	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		Bromodichloromethane	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		Dibromochloromethane	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		Bromoform	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		Tetrachloroethene	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		Toluene	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		Toluene-d8	46.4	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		Chlorobenzene	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		Ethylbenzene	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		Bromofluorobenzene	68.5	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624		2-Propanone	0	ug/L	60

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624	2-Butanone	0	ug/L	60
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624	Tetrahydrofuran	0	ug/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624	2-chloroethoxy ethene	0	ug/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$624	TOTAL AMOUNT	316	ug/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	pyridine	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	2-Fluorophenol	36.1	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	aniline	0	ug/L	6.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Phenol-d6	26.1	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Phenol	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	2-Chlorophenol	0	ug/L	6.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	n-decane	0	ug/L	6.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	o-cresol	0	ug/L	6.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	acetophenone	0	ug/L	6.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Hexachloroethane	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Nitrobenzene-d5	71.0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	p-cresol	0	ug/L	6.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Nitrobenzene	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Isophorone	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Decafluorobiphenyl	62.3	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	2-Nitrophenol	0	ug/L	6.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Naphthalene	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	1-Fluoronaphthalene	67.9	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	alpha terpineol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Acenaphthylene	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Acenaphthene	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	4-Nitrophenol	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Diethyl phthalate	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Fluorene	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	2,4,6-Tribromophenol	73.3	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Pentachlorophenol	0	ug/L	6.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	n-octadecane	0	ug/L	6.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Phenanthrene	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Anthracene	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	carbazole	0	ug/L	6.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Fluoranthene	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Benzidine	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Pyrene	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Chrysene	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Perylene-D12	50.0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Hexachloroethane	0	ug/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	2,3-Dichloroaniline	0	ug/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Diethylphthalate	0	ug/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Benzo[ghi]perylene	0	ug/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	9	ug/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	7-Oxabicyclo[4.1.0]heptane T	5	ug/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	2-Cyclohexen-1-ol T	11	ug/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	2-Cyclohexen-1-one T	8	ug/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Pentane, 2,3,4-trimethyl- T	2	ug/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	2-Chlorocyclohexanol T	1	ug/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Bi-2-cyclohexen-1-yl T	1	ug/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Butane, 1,1,3,4-tetrachloro-1,2,2,3,4, T	1	ug/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	Cyclohexane, methylene- T	1	ug/L	
AC07504	LM06	Little Miami Watershed	6 (3261-07)	9/24/2012	12:40	\$625	TOTAL AMOUNT	665	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	MF_CF	Fecal Coliform, Membrane Filter	150	CFU/100mL	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	E-COLI	E.coli (Colilert)	185	MPN	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	TDS	Total Dissolved Solids	360	mg/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	SO4	Sulfate	53.2	mg/L	12.5
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	CL	Chloride	119	mg/L	2.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	TSS	Tot. Suspended Solids	18	mg/L	2
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	SSC	Suspended Sediment Concentration	22.5	mg/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	HARD	Hardness as CaCO3	272	mg/l	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	COD	COD	15	mg/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	677	uS/cm	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	TEMP_FLD	Temperature (Field) Celsius	17.09	Deg C	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	PH_FLD	pH (Field)	8.59	S.U.	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	DO_FLD	Dissolved Oxygen (field) mg/L	10.35	mg/l	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	797	uS/cm	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$ICP	Aluminum	0.556	mg/L	0.348
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$ICP	Antimony	0.00	mg/L	0.006
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$ICP	Arsenic	0.00	mg/L	0.012
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$ICP	Barium	0.0669	mg/L	0.003
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$ICP	Calcium	74.9	mg/L	0.066
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$ICP	Chromium	0.00	mg/L	0.006
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$ICP	Copper	0.00656	mg/L	0.006
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$ICP	Iron	0.980	mg/L	0.018
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$ICP	Lead	0.00	mg/L	0.006
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$ICP	Magnesium	27.9	mg/L	0.021
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$ICP	Manganese	0.0506	mg/L	0.009
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$ICP	Nickel	0.00	mg/L	0.003
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$ICP	Selenium	0.0192	mg/L	0.009
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$ICP	Silver	0.00	mg/L	0.003
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$ICP	Strontium	0.322	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$ICP	Thallium	0.00	mg/L	0.012
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$ICP	Tin	0.00	mg/L	0.006
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$ICP	Zinc	0.0115	mg/L	0.006
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	PB_FU	Lead by Furnace	0.44	ug/L	1.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	AS_FU	Arsenic by Furnace	1.12	ug/L	1.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	CU_FU	Copper by Furnace	3.2	ug/L	1
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	NH3	Ammonia as N	0	mg/L	0.5
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	NO3NO2	Nitrate + Nitrite	1.85	mg/L	0.5
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	TKN	Total Kjeldahl Nitrogen	0.6516	mg/L	0.5
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	NO2	Nitrite as N	0.0172	mg/l	0.005
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	NO3	Nitrate as N (calculated)	1.8328	mg/l	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	CHLOROPHYLL	Chlorophyll	12.8	mg/m3	1.00
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	Aldrin	AA	ug/L	0.02
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	Chlordane	AA	ug/L	0.10
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	Dieldrin	AA	ug/L	0.02
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	Endrin	AA	ug/L	0.02
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	Heptachlor	AA	ug/L	0.02
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	Toxaphene	AA	ug/L	1.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	PCB 1016	AA	ug/L	0.5
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	PCB 1221	AA	ug/L	0.5
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	PCB 1232	AA	ug/L	0.5
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	PCB 1242	AA	ug/L	0.5
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	PCB 1248	AA	ug/L	0.5
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	PCB 1254	AA	ug/L	0.5
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	PCB 1260	AA	ug/L	0.5
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	Surr: Decachlorobiphenyl	0.638	%	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$PEST	Surr: Tetrachloro-m-xylene	0.743	%	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Chloromethane	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Vinyl Chloride	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Bromomethane	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Chloroethane	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Acrolein	0	ug/L	100.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Acrylonitrile	0	ug/L	100.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Methylene Chloride	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Chloroform	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	1,2-Dichloroethane-d4	52.4	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Benzene	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Trichloroethene	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Bromodichloromethane	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Dibromochloromethane	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Bromoform	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Tetrachloroethene	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Toluene	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Toluene-d8	47.7	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Chlorobenzene	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Ethylbenzene	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Bromofluorobenzene	71.9	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	2-Propanone	0	ug/L	60
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	2-Butanone	0	ug/L	60
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	Tetrahydrofuran	0	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	2-chloroethoxy ethene	0	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$624	TOTAL AMOUNT	322	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	pyridine	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	2-Fluorophenol	52.2	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	aniline	0	ug/L	6.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Phenol-d6	34.4	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Phenol	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	2-Chlorophenol	0	ug/L	6.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	n-decane	0	ug/L	6.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	o-cresol	0	ug/L	6.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	acetophenone	0	ug/L	6.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Hexachloroethane	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Nitrobenzene-d5	80.6	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	p-cresol	0	ug/L	6.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Nitrobenzene	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Isophorone	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Decafluorobiphenyl	74.6	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	2-Nitrophenol	0	ug/L	6.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Naphthalene	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	1-Fluoronaphthalene	82.8	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	alpha terpineol	0	ug/L	6.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Acenaphthylene	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Acenaphthene	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	4-Nitrophenol	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Diethyl phthalate	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Fluorene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	2,4,6-Tribromophenol	83.6	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Pentachlorophenol	0	ug/L	6.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	n-octadecane	0	ug/L	6.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Phenanthrene	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Anthracene	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	carbazole	0	ug/L	6.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Fluoranthene	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Benzidine	0	ug/L	6.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Pyrene	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Chrysene	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Perylene-D12	50.0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Hexachloroethane	0	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	2,3-Dichloroaniline	0	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625	Diethylphthalate	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625		Benzo[ghi]perylene	0	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625		Propane, 2-methyl-2-(1-methylethoxy)- T	16	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	9	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625		7-Oxabicyclo[4.1.0]heptane T	4	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625		2-Cyclohexen-1-ol T	12	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625		Cyclohexene, 3-chloro- T	1	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625		1-Methoxy-6,6-dimethyl-cyclohex-2-ene T	1	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625		2-Cyclohexen-1-one T	8	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625		Pentane, 2,3,4-trimethyl- T	2	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625		2-Chlorocyclohexanol T	2	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625		Bi-2-cyclohexen-1-yl T	1	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625		Butane, 1,2,3,4-tetrachloro-1,1,2,3,4, T	1	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625		Benzenamine, 4-propoxy- T	1	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625		Bicyclo[4.1.0]heptan-3-one, 4,7,7-trim T	1	ug/L	
AC07505	LM08	Little Miami Watershed	8 (3261-06)	9/24/2012	12:50	\$625		TOTAL AMOUNT	724	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30		MF_CF	Fecal Coliform, Membrane Filter	129	CFU/100mL	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30		E-COLI	E.coli (Colilert)	99	MPN	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30		TDS	Total Dissolved Solids	450	mg/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30		BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30		SO4	Sulfate	40.2	mg/L	25.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30		CL	Chloride	108	mg/L	1.00
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30		TSS	Tot. Suspended Solids	20	mg/L	2
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30		SSC	Suspended Sediment Concentration	15.2	mg/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30		HARD	Hardness as CaCO3	310	mg/l	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30		COD	COD	39	mg/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	685	uS/cm	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30		TEMP_FLD	Temperature (Field) Celsius	16.01	Deg C	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30		PH_FLD	pH (Field)	8.49	S.U.	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	DO_FLD	Dissolved Oxygen (field) mg/L	8.70	mg/l	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	827	uS/cm	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$ICP	Antimony	0.00	mg/L	0.006
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$ICP	Barium	0.0734	mg/L	0.003
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$ICP	Calcium	85.0	mg/L	0.066
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$ICP	Chromium	0.00	mg/L	0.006
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$ICP	Copper	0.00808	mg/L	0.006
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$ICP	Iron	0.572	mg/L	0.018
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$ICP	Lead	0.00	mg/L	0.006
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$ICP	Magnesium	32.1	mg/L	0.021
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$ICP	Manganese	0.0443	mg/L	0.009
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$ICP	Nickel	0.00	mg/L	0.003
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$ICP	Selenium	0.0200	mg/L	0.009
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$ICP	Silver	0.00	mg/L	0.003
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$ICP	Strontium	0.371	mg/L	0.009
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$ICP	Thallium	0.00	mg/L	0.012
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$ICP	Tin	0.00	mg/L	0.006
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$ICP	Zinc	0.0100	mg/L	0.006
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	PB_FU	Lead by Furnace	0.64	ug/L	1.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	AS_FU	Arsenic by Furnace	1.24	ug/L	1.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	CU_FU	Copper by Furnace	2.9	ug/L	1
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	NH3	Ammonia as N	0	mg/L	0.5
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	NO3NO2	Nitrate + Nitrite	2.35	mg/L	0.5
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	NO2	Nitrite as N	0.0143	mg/l	0.005

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	NO3	Nitrate as N (calculated)	2.3357	mg/l	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	CHLOROPHYLL	Chlorophyll	2.37	mg/m3	1.00
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	Aldrin	AA	ug/L	0.02
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	Chlordane	AA	ug/L	0.10
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	Endrin	AA	ug/L	0.02
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	Surr: Decachlorobiphenyl	0.722	%	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$PEST	Surr: Tetrachloro-m-xylene	0.747	%	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624	Chloromethane	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624	Bromomethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		Chloroethane	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		Acrolein	0	ug/L	100.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		Acrylonitrile	0	ug/L	100.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		Methylene Chloride	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		Chloroform	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		1,2-Dichloroethane-d4	53.4	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		Benzene	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		Trichloroethene	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		Bromoform	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		Toluene	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		Toluene-d8	47.5	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		Chlorobenzene	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		Ethylbenzene	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		Bromofluorobenzene	66.4	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		2-Propanone	0	ug/L	60
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		2-Butanone	0	ug/L	60
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		Tetrahydrofuran	0	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$624		TOTAL AMOUNT	317	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		pyridine	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		2-Fluorophenol	48.5	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		aniline	0	ug/L	6.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Phenol-d6	32.1	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Phenol	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		n-decane	0	ug/L	6.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		o-cresol	0	ug/L	6.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		acetophenone	0	ug/L	6.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Hexachloroethane	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Nitrobenzene-d5	76.6	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		p-cresol	0	ug/L	6.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Nitrobenzene	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Isophorone	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Decafluorobiphenyl	61.8	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Naphthalene	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		1-Fluoronaphthalene	68.8	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		alpha terpineol	0	ug/L	6.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Acenaphthylene	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Acenaphthene	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		4-Nitrophenol	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Diethyl phthalate	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Fluorene	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		2,4,6-Tribromophenol	77.1	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Pentachlorophenol	0	ug/L	6.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		n-octadecane	0	ug/L	6.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Phenanthrene	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Anthracene	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		carbazole	0	ug/L	6.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Fluoranthene	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Benzidine	0	ug/L	6.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Pyrene	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Chrysene	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Perylene-D12	50.0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Hexachloroethane	0	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	2,3-Dichloroaniline	0	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Diethylphthalate	0	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Benzo[ghi]perylene	0	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Oxirane, 2-methyl-2-(1-methylethyl)- T	2	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Acetamide, N,N-diethyl- T	2	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Propane, 2-methyl-2-(1-methylethoxy)- T	9	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	2,3-Butanediol, 2,3-dimethyl- T	2	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	7-Oxabicyclo[4.1.0]heptane T	2	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	Propylene Glycol T	2	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625	2-Propanol, 2-methyl- T	3	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		2-Butanol, 3-methyl- T	4	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		2-Cyclohexen-1-one T	3	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Hexane, 3,3,4-trimethyl- T	2	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Pyridine, 3-butyl-, 1-oxide T	1	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		Bicyclo[4.1.0]heptan-3-one, 4,7,7-trim T	1	ug/L	
AC07551	LM07	Little Miami Watershed	7	9/25/2012	08:30	\$625		TOTAL AMOUNT	674	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		MF_CF	Fecal Coliform, Membrane Filter	86	CFU/100mL	
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		E-COLI	E.coli (Colilert)	72	MPN	
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		TDS	Total Dissolved Solids	490	mg/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		SO4	Sulfate	52.5	mg/L	12.5
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		CL	Chloride	121	mg/L	2.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		TSS	Tot. Suspended Solids	14	mg/L	2
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		SSC	Suspended Sediment Concentration	14.0	mg/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		HARD	Hardness as CaCO3	312	mg/l	
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		COD	COD	5	mg/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	687	uS/cm	
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		TEMP_FLD	Temperature (Field) Celsius	16.25	Deg C	
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		PH_FLD	pH (Field)	8.46	S.U.	
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		DO_FLD	Dissolved Oxygen (field) mg/L	9.14	mg/l	
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		CONDUCTIVITY	Specific Conductivity (uS/cm)	825	uS/cm	
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		\$ICP	Aluminum	0.00	mg/L	0.348
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		\$ICP	Antimony	0.00	mg/L	0.006
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		\$ICP	Arsenic	0.00	mg/L	0.012
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		\$ICP	Barium	0.0721	mg/L	0.003
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		\$ICP	Beryllium	0.00	mg/L	0.009
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		\$ICP	Cadmium	0.00	mg/L	0.012
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		\$ICP	Calcium	81.4	mg/L	0.066
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		\$ICP	Chromium	0.00	mg/L	0.006
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		\$ICP	Cobalt	0.00	mg/L	0.006
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		\$ICP	Copper	0.00921	mg/L	0.006
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		\$ICP	Iron	0.523	mg/L	0.018
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50		\$ICP	Lead	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$ICP	Magnesium	29.4	mg/L	0.021
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$ICP	Manganese	0.0367	mg/L	0.009
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$ICP	Nickel	0.00	mg/L	0.003
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$ICP	Selenium	0.0243	mg/L	0.009
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$ICP	Silver	0.00	mg/L	0.003
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$ICP	Strontium	0.350	mg/L	0.009
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$ICP	Thallium	0.00	mg/L	0.012
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$ICP	Tin	0.00	mg/L	0.006
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$ICP	Zinc	0.0121	mg/L	0.006
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	PB_FU	Lead by Furnace	0.65	ug/L	1.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	AS_FU	Arsenic by Furnace	1.40	ug/L	1.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	CU_FU	Copper by Furnace	3.6	ug/L	1
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	NH3	Ammonia as N	0	mg/L	0.5
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	NO3NO2	Nitrate + Nitrite	1.84	mg/L	0.5
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	TKN	Total Kjeldahl Nitrogen	0.5487	mg/L	0.5
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	NO2	Nitrite as N	0.0167	mg/l	0.005
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	NO3	Nitrate as N (calculated)	1.8233	mg/l	
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	Aldrin	AA	ug/L	0.02
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	Chlordane	AA	ug/L	0.10
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	Dieldrin	AA	ug/L	0.02
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	Endosulfan II	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	Endrin	AA	ug/L	0.02
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	Heptachlor	AA	ug/L	0.02
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	Toxaphene	AA	ug/L	1.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	PCB 1016	AA	ug/L	0.5
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	PCB 1221	AA	ug/L	0.5
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	PCB 1232	AA	ug/L	0.5
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	PCB 1242	AA	ug/L	0.5
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	PCB 1248	AA	ug/L	0.5
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	PCB 1254	AA	ug/L	0.5
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	PCB 1260	AA	ug/L	0.5
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	Surr: Decachlorobiphenyl	0.819	%	
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$PEST	Surr: Tetrachloro-m-xylene	0.916	%	
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Chloromethane	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Vinyl Chloride	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Bromomethane	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Chloroethane	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Acrolein	0	ug/L	100.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Acrylonitrile	0	ug/L	100.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Methylene Chloride	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Chloroform	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	1,2-Dichloroethane-d4	53.5	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Carbon Tetrachloride	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Benzene	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Trichloroethene	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Bromodichloromethane	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Dibromochloromethane	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Bromoform	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Tetrachloroethene	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Toluene	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Toluene-d8	47.3	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Chlorobenzene	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Ethylbenzene	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Bromofluorobenzene	68.2	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	2-Propanone	0	ug/L	60
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	2-Butanone	0	ug/L	60
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	Tetrahydrofuran	0	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	2-chloroethoxy ethene	0	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$624	TOTAL AMOUNT	319	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	pyridine	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	2-Fluorophenol	39.7	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	aniline	0	ug/L	6.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	Phenol-d6	28.7	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	Phenol	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		2-Chlorophenol	0	ug/L	6.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		n-decane	0	ug/L	6.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		o-cresol	0	ug/L	6.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		acetophenone	0	ug/L	6.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		Hexachloroethane	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		Nitrobenzene-d5	69.8	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		p-cresol	0	ug/L	6.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		Nitrobenzene	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		Isophorone	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		Decafluorobiphenyl	60.2	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		2-Nitrophenol	0	ug/L	6.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		Naphthalene	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		1-Fluoronaphthalene	67.9	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		alpha terpineol	0	ug/L	6.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		Acenaphthylene	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625		Acenaphthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	4-Nitrophenol	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	Diethyl phthalate	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	Fluorene	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	2,4,6-Tribromophenol	70.9	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	Pentachlorophenol	0	ug/L	6.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	n-octadecane	0	ug/L	6.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	Phenanthrene	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	Anthracene	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	carbazole	0	ug/L	6.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	Fluoranthene	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	Benzidine	0	ug/L	6.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	Pyrene	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	Chrysene	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	Perylene-D12	50.0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012	08:50	\$625	Benzo(a)pyrene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		Hexachloroethane	0	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		2,3-Dichloroaniline	0	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		Diethylphthalate	0	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		Benzo[ghi]perylene	0	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		Oxirane, 2-methyl-2-(1-methylethyl)- T	2	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		2,13-Dibora-1,3,6,9,12,14,17,20-octaox T	1	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	9	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		2-Propanol, 2-methyl- T	2	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		7-Oxabicyclo[4.1.0]heptane T	2	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		Propylene Glycol T	2	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		2,3-Butanediol, 2,3-dimethyl- T	2	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		Propane, 2-chloro-1-methoxy- T	3	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		2-Cyclohexen-1-one T	3	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		Pentane, 3-ethyl- T	2	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		2-Propenal, 3-(2,2,6-trimethyl-7-oxabi T	1	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		Cyclohexane, methylene- T	1	ug/L	
AC07552	LM09	Little Miami Watershed	9	9/25/2012 08:50	\$625		TOTAL AMOUNT	637	ug/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012 09:10		MF_CF	Fecal Coliform, Membrane Filter	121	CFU/100mL	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012 09:10		E-COLI	E.coli (Colilert)	113	MPN	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012 09:10		TDS	Total Dissolved Solids	530	mg/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012 09:10		BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012 09:10		SO4	Sulfate	51.8	mg/L	1.00
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012 09:10		CL	Chloride	125	mg/L	1.00
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012 09:10		TSS	Tot. Suspended Solids	12	mg/L	2
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012 09:10		SSC	Suspended Sediment Concentration	13.0	mg/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	HARD	Hardness as CaCO3	300	mg/l	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	COD	COD	42	mg/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	694	uS/cm	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	TEMP_FLD	Temperature (Field) Celsius	16.39	Deg C	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	PH_FLD	pH (Field)	8.46	S.U.	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	DO_FLD	Dissolved Oxygen (field) mg/L	8.57	mg/l	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	831	uS/cm	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$ICP	Aluminum	0.597	mg/L	0.348
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$ICP	Antimony	0.00	mg/L	0.006
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$ICP	Arsenic	0.00	mg/L	0.012
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$ICP	Barium	0.0747	mg/L	0.003
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$ICP	Calcium	82.1	mg/L	0.066
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$ICP	Chromium	0.00	mg/L	0.006
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$ICP	Copper	0.00951	mg/L	0.006
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$ICP	Iron	1.05	mg/L	0.018
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$ICP	Lead	0.00	mg/L	0.006
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$ICP	Magnesium	29.5	mg/L	0.021
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$ICP	Manganese	0.0652	mg/L	0.009
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$ICP	Nickel	0.00336	mg/L	0.003
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$ICP	Selenium	0.0180	mg/L	0.009
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$ICP	Silver	0.00	mg/L	0.003
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$ICP	Strontium	0.349	mg/L	0.009
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$ICP	Thallium	0.00	mg/L	0.012
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$ICP	Tin	0.00	mg/L	0.006
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$ICP	Zinc	0.0143	mg/L	0.006
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	PB_FU	Lead by Furnace	1.13	ug/L	1.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	AS_FU	Arsenic by Furnace	1.28	ug/L	1.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	CU_FU	Copper by Furnace	3.5	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	NH3	Ammonia as N	0	mg/L	0.5
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	NO3NO2	Nitrate + Nitrite	1.80	mg/L	0.5
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	NO2	Nitrite as N	0.0133	mg/l	0.005
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	NO3	Nitrate as N (calculated)	1.7867	mg/l	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	Aldrin	AA	ug/L	0.02
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	Chlordane	AA	ug/L	0.10
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	Dieldrin	AA	ug/L	0.02
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	Endrin	AA	ug/L	0.02
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	Heptachlor	AA	ug/L	0.02
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	Toxaphene	AA	ug/L	1.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	PCB 1016	AA	ug/L	0.5
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	PCB 1221	AA	ug/L	0.5
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	PCB 1232	AA	ug/L	0.5
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	PCB 1242	AA	ug/L	0.5
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	PCB 1248	AA	ug/L	0.5
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	PCB 1254	AA	ug/L	0.5
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	PCB 1260	AA	ug/L	0.5
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	Surr: Decachlorobiphenyl	0.812	%	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$PEST	Surr: Tetrachloro-m-xylene	0.876	%	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Chloromethane	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Vinyl Chloride	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Bromomethane	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Chloroethane	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Acrolein	0	ug/L	100.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Acrylonitrile	0	ug/L	100.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Methylene Chloride	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Chloroform	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	1,2-Dichloroethane-d4	53.0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Benzene	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Trichloroethene	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Bromodichloromethane	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Dibromochloromethane	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Bromoform	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Tetrachloroethene	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Toluene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Toluene-d8	47.7	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Chlorobenzene	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Ethylbenzene	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Bromofluorobenzene	70.8	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	2-Propanone	0	ug/L	60
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	2-Butanone	0	ug/L	60
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	Tetrahydrofuran	0	ug/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	2-chloroethoxy ethene	0	ug/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$624	TOTAL AMOUNT	322	ug/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	pyridine	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	2-Fluorophenol	43.1	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	aniline	0	ug/L	6.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Phenol-d6	28.9	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Phenol	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	2-Chlorophenol	0	ug/L	6.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	n-decane	0	ug/L	6.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	o-cresol	0	ug/L	6.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	acetophenone	0	ug/L	6.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Hexachloroethane	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Nitrobenzene-d5	72.4	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	p-cresol	0	ug/L	6.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Nitrobenzene	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Isophorone	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Decafluorobiphenyl	65.2	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	2-Nitrophenol	0	ug/L	6.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Naphthalene	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	1-Fluoronaphthalene	72.6	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	alpha terpineol	0	ug/L	6.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Acenaphthylene	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Acenaphthene	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	4-Nitrophenol	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Diethyl phthalate	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Fluorene	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	2,4,6-Tribromophenol	76.6	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Pentachlorophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	n-octadecane	0	ug/L	6.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Phenanthrene	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Anthracene	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	carbazole	0	ug/L	6.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Fluoranthene	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Benzidine	0	ug/L	6.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Pyrene	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Chrysene	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Perylene-D12	50.0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Hexachloroethane	0	ug/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	2,3-Dichloroaniline	0	ug/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Diethylphthalate	0	ug/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Benzo[ghi]perylene	0	ug/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	2-Hexanone T	2	ug/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	1,3-Dioxane, 2,4,6-trimethyl-, (2.alpha T	1	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	3-Hexanamine T	1	ug/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	2-Pentanone, 5-methoxy- T	2	ug/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	2-Propanol, 2-methyl- T	2	ug/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	2-Butanol, 3-chloro-, (R*,S*)- T	5	ug/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	2,3-Butanediol, 2,3-dimethyl- T	2	ug/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Isopropyl Alcohol T	3	ug/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	2-Propenal, 3-(2,2,6-trimethyl-7-oxabi T	1	ug/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	Cyclohexane, ethylidene- T	1	ug/L	
AC07553	LM10	Little Miami Watershed	10 (3261-10)	9/25/2012	09:10	\$625	TOTAL AMOUNT	664	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	MF_CF	Fecal Coliform, Membrane Filter	64	CFU/100mL	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	E-COLI	E.coli (Colilert)	87	MPN	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	TDS	Total Dissolved Solids	470	mg/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	SO4	Sulfate	49.0	mg/L	12.5
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	CL	Chloride	105	mg/L	1.00
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	TSS	Tot. Suspended Solids	6	mg/L	2
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	SSC	Suspended Sediment Concentration	11.7	mg/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	HARD	Hardness as CaCO3	270	mg/l	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	COD	COD	12	mg/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	641	uS/cm	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	TEMP_FLD	Temperature (Field) Celsius	16.42	Deg C	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	PH_FLD	pH (Field)	8.42	S.U.	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	DO_FLD	Dissolved Oxygen (field) mg/L	9.36	mg/l	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	767	uS/cm	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$ICP	Aluminum	0.00	mg/L	0.348
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$ICP	Antimony	0.00	mg/L	0.006
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$ICP	Arsenic	0.00	mg/L	0.012
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$ICP	Barium	0.0609	mg/L	0.003
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$ICP	Beryllium	0.00	mg/L	0.009
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$ICP	Cadmium	0.00	mg/L	0.012
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$ICP	Calcium	75.8	mg/L	0.066
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$ICP	Chromium	0.00	mg/L	0.006
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$ICP	Cobalt	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$ICP	Copper	0.00667	mg/L	0.006
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$ICP	Iron	0.432	mg/L	0.018
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$ICP	Lead	0.00	mg/L	0.006
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$ICP	Magnesium	25.3	mg/L	0.021
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$ICP	Manganese	0.0465	mg/L	0.009
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$ICP	Nickel	0.00	mg/L	0.003
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$ICP	Selenium	0.0212	mg/L	0.009
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$ICP	Silver	0.00	mg/L	0.003
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$ICP	Strontium	0.303	mg/L	0.009
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$ICP	Thallium	0.00	mg/L	0.012
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$ICP	Tin	0.00	mg/L	0.006
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$ICP	Vanadium	0.00	mg/L	0.018
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$ICP	Zinc	0.00667	mg/L	0.006
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	PB_FU	Lead by Furnace	0.48	ug/L	1.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	AS_FU	Arsenic by Furnace	1.53	ug/L	1.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	CU_FU	Copper by Furnace	2.9	ug/L	1
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	NH3	Ammonia as N	0	mg/L	0.5
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	NO3NO2	Nitrate + Nitrite	2.19	mg/L	0.5
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	NO2	Nitrite as N	0.0141	mg/l	0.005
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	NO3	Nitrate as N (calculated)	2.1759	mg/l	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	Aldrin	AA	ug/L	0.02
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	Chlordane	AA	ug/L	0.10
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	4,4-DDE	AA	ug/L	0.02



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	Dieldrin	AA	ug/L	0.02
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	Endrin	AA	ug/L	0.02
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	Heptachlor	AA	ug/L	0.02
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	Toxaphene	AA	ug/L	1.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	PCB 1016	AA	ug/L	0.5
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	PCB 1221	AA	ug/L	0.5
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	PCB 1232	AA	ug/L	0.5
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	PCB 1242	AA	ug/L	0.5
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	PCB 1248	AA	ug/L	0.5
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	PCB 1254	AA	ug/L	0.5
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	PCB 1260	AA	ug/L	0.5
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	Surr: Decachlorobiphenyl	0.937	%	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$PEST	Surr: Tetrachloro-m-xylene	0.923	%	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624	Chloromethane	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624	Vinyl Chloride	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624	Bromomethane	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624	Chloroethane	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624	Acrolein	0	ug/L	100.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624	Acrylonitrile	0	ug/L	100.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624	Methylene Chloride	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624	Chloroform	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624	1,2-Dichloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		1,2-Dichloroethane-d4	51.3	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		Benzene	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		Trichloroethene	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		Bromodichloromethane	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		Dibromochloromethane	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		Bromoform	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		Tetrachloroethene	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		Toluene	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		Toluene-d8	47.4	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		Chlorobenzene	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		Ethylbenzene	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		Bromofluorobenzene	75.4	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		2-Propanone	0	ug/L	60
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		2-Butanone	0	ug/L	60
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		Tetrahydrofuran	0	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		2-chloroethoxy ethene	0	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$624		TOTAL AMOUNT	324	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625		pyridine	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625		2-Fluorophenol	32.9	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	aniline	0	ug/L	6.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Phenol-d6	25.4	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Phenol	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	2-Chlorophenol	0	ug/L	6.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	n-decane	0	ug/L	6.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	o-cresol	0	ug/L	6.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	acetophenone	0	ug/L	6.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Hexachloroethane	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Nitrobenzene-d5	62.5	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	p-cresol	0	ug/L	6.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Nitrobenzene	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Isophorone	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Decafluorobiphenyl	57.1	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	2-Nitrophenol	0	ug/L	6.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Naphthalene	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	1-Fluoronaphthalene	61.0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	alpha terpineol	0	ug/L	6.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Dimethyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Acenaphthylene	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Acenaphthene	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	4-Nitrophenol	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Diethyl phthalate	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Fluorene	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	2,4,6-Tribromophenol	63.4	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Pentachlorophenol	0	ug/L	6.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	n-octadecane	0	ug/L	6.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Phenanthrene	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Anthracene	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	carbazole	0	ug/L	6.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Fluoranthene	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Benzidine	0	ug/L	6.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Pyrene	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Chrysene	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Perylene-D12	50.0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Hexachloroethane	0	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	2,3-Dichloroaniline	0	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Diethylphthalate	0	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Benzo[ghi]perylene	0	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Pentanal, 2-methyl- T	2	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Oxirane, 2-methyl-2-(1-methylethyl)- T	3	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	1-Butene, 3-methyl-3-(1-ethoxyethoxy) T	1	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Pentanoic acid, 2-hydroxy-4-methyl-, m T	2	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	2-Butanamine, 2-methyl- T	1	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	2	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	2,3-Butanediol, 2,3-dimethyl- T	2	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	1	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Pentane, 2,3,4-trimethyl- T	3	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Propane, 2-chloro-1-methoxy- T	3	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	2,3-Butanediol, 2,3-dimethyl- T2	4	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Pulegone T	1	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	2-Butanol, 3-chloro-, (R*,R*)- T	2	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Phenol, 4,4'-(1-methylethylidene)bis- T	2	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	Cyclohexene, 3-methyl- T	1	ug/L	
AC07554	LM11	Little Miami Watershed	11	9/25/2012	09:35	\$625	TOTAL AMOUNT	617	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	57	CFU/100mL	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	E-COLI	E.coli (Colilert)	128	MPN	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	TDS	Total Dissolved Solids	530	mg/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	SO4	Sulfate	50.0	mg/L	12.5
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	CL	Chloride	104	mg/L	1.00
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	TSS	Tot. Suspended Solids	18	mg/L	2
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	SSC	Suspended Sediment Concentration	13.2	mg/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	HARD	Hardness as CaCO3	292	mg/l	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	COD	COD	32	mg/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	639	uS/cm	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	16.19	Deg C	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	PH_FLD	pH (Field)	8.34	S.U.	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	9.15	mg/l	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	768	uS/cm	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$ICP	Antimony	0.00	mg/L	0.006
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$ICP	Barium	0.0610	mg/L	0.003
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$ICP	Calcium	77.6	mg/L	0.066
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$ICP	Chromium	0.00	mg/L	0.006
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$ICP	Copper	0.00651	mg/L	0.006
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$ICP	Iron	0.381	mg/L	0.018
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$ICP	Lead	0.00	mg/L	0.006
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$ICP	Magnesium	25.6	mg/L	0.021
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$ICP	Manganese	0.0458	mg/L	0.009
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$ICP	Nickel	0.00	mg/L	0.003
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$ICP	Selenium	0.0169	mg/L	0.009
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$ICP	Silver	0.00	mg/L	0.003
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$ICP	Strontium	0.299	mg/L	0.009
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$ICP	Thallium	0.00	mg/L	0.012
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$ICP	Tin	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$ICP	Zinc	0.00786	mg/L	0.006
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	PB_FU	Lead by Furnace	0.47	ug/L	1.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	AS_FU	Arsenic by Furnace	1.38	ug/L	1.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	CU_FU	Copper by Furnace	2.9	ug/L	1
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	NO3NO2	Nitrate + Nitrite	2.37	mg/L	0.5
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	NO2	Nitrite as N	0.0158	mg/l	0.005
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	NO3	Nitrate as N (calculated)	2.3542	mg/l	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	CHLOROPHYLL	Chlorophyll	4.27	mg/m3	1.00
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	Aldrin	AA	ug/L	0.02
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	Chlordane	AA	ug/L	0.10
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	Endrin	AA	ug/L	0.02
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	Toxaphene	AA	ug/L	1.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	PCB 1221	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	Surr: Decachlorobiphenyl	1.02	%	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$PEST	Surr: Tetrachloro-m-xylene	0.916	%	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	Chloromethane	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	Bromomethane	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	Chloroethane	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	Acrolein	0	ug/L	100.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	Acrylonitrile	0	ug/L	100.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	Methylene Chloride	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	Chloroform	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	1,2-Dichloroethane-d4	43.6	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	Benzene	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	Trichloroethene	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	Bromodichloromethane	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624	1,1,2-Trichloroethane	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624		Bromoform	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624		1,1,2,2-Tetrachloroethane	41.4	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624		Toluene	0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624		Toluene-d8	56.8	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624		Chlorobenzene	8.1	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624		Ethylbenzene	5.2	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624		Bromofluorobenzene	66.4	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624		1,3-Dichlorobenzene	26.0	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624		1,4-Dichlorobenzene	31.2	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624		1,2-Dichlorobenzene	39.4	ug/L	5.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624		2-Propanone	0	ug/L	60
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624		2-Butanone	0	ug/L	60
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624		Tetrahydrofuran	0	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624		2-chloroethoxy ethene	8	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$624		TOTAL AMOUNT	477	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		pyridine	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		2-Fluorophenol	42.0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		aniline	0	ug/L	6.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Phenol-d6	27.9	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Phenol	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		2-Chlorophenol	0	ug/L	6.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		n-decane	0	ug/L	6.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		o-cresol	0	ug/L	6.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		acetophenone	0	ug/L	6.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Hexachloroethane	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	Nitrobenzene-d5	75.9	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	p-cresol	0	ug/L	6.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	Nitrobenzene	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	Isophorone	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	Decafluorobiphenyl	71.1	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	2-Nitrophenol	0	ug/L	6.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	Naphthalene	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	1-Fluoronaphthalene	76.1	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	alpha terpineol	0	ug/L	6.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	Acenaphthylene	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	Acenaphthene	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	4-Nitrophenol	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	Diethyl phthalate	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	Fluorene	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		2,4,6-Tribromophenol	79.2	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Pentachlorophenol	0	ug/L	6.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		n-octadecane	0	ug/L	6.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Phenanthrene	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Anthracene	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		carbazole	0	ug/L	6.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Fluoranthene	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Benzidine	0	ug/L	6.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Pyrene	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Chrysene	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Perylene-D12	50.0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Hexachloroethane	0	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		2,3-Dichloroaniline	0	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Diethylphthalate	0	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Benzo[b]fluoranthene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Benzo[ghi]perylene	0	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Oxirane, 2-methyl-2-(1-methylethyl)- T	3	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		1,3-Dioxane, 2,4,6-trimethyl-, (2.alpha T	2	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		1,3-Dioxane, 2-methyl- T	1	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		t-Butyl hypochlorite T	2	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		2-Butanol, 3-chloro-, (R*,R*)- T	2	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		2,3-Butanediol, 2,3-dimethyl- T	3	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		2-Butanol, 3-chloro-, (R*,S*)- T	5	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		2-Butenal, 3-methyl- T	1	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Trans-1,4-diethylcyclohexane T	1	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Pentane, 2,3,4-trimethyl- T	3	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Tetradecane T	1	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		Isopropyl Palmitate T	2	ug/L	
AC07555	LM12	Little Miami Watershed	12 (3261-04)	9/25/2012	10:00	\$625		TOTAL AMOUNT	699	ug/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30		MF_CF	Fecal Coliform, Membrane Filter	93	CFU/100mL	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30		E-COLI	E.coli (Colilert)	137	MPN	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30		TDS	Total Dissolved Solids	500	mg/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30		BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30		SO4	Sulfate	51.0	mg/L	12.5
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30		CL	Chloride	102	mg/L	1.00
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30		TSS	Tot. Suspended Solids	16	mg/L	2
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30		SSC	Suspended Sediment Concentration	8.3	mg/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30		HARD	Hardness as CaCO3	308	mg/l	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30		COD	COD	40	mg/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	637	uS/cm	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30		TEMP_FLD	Temperature (Field) Celsius	16.23	Deg C	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30		PH_FLD	pH (Field)	8.19	S.U.	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30		DO_FLD	Dissolved Oxygen (field) mg/L	9.17	mg/l	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30		CONDUCTIVITY	Specific Conductivity (uS/cm)	766	uS/cm	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30		§ICP	Aluminum	0.00	mg/L	0.348

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$ICP	Antimony	0.00	mg/L	0.006
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$ICP	Barium	0.0601	mg/L	0.003
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$ICP	Calcium	68.4	mg/L	0.066
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$ICP	Chromium	0.00	mg/L	0.006
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$ICP	Copper	0.0102	mg/L	0.006
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$ICP	Iron	0.337	mg/L	0.018
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$ICP	Lead	0.00	mg/L	0.006
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$ICP	Magnesium	22.8	mg/L	0.021
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$ICP	Manganese	0.0507	mg/L	0.009
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$ICP	Nickel	0.00365	mg/L	0.003
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$ICP	Selenium	0.0269	mg/L	0.009
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$ICP	Silver	0.00	mg/L	0.003
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$ICP	Strontium	0.291	mg/L	0.009
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$ICP	Thallium	0.00	mg/L	0.012
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$ICP	Tin	0.00	mg/L	0.006
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$ICP	Zinc	0.0101	mg/L	0.006
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	PB_FU	Lead by Furnace	0.47	ug/L	1.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	AS_FU	Arsenic by Furnace	1.36	ug/L	1.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	CU_FU	Copper by Furnace	1.7	ug/L	1
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	NO3NO2	Nitrate + Nitrite	2.33	mg/L	0.5
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	NO2	Nitrite as N	0.0149	mg/l	0.005
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	NO3	Nitrate as N (calculated)	2.3151	mg/l	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	CHLOROPHYLL	Chlorophyll	6.94	mg/m3	1.00
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	Aldrin	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	Chlordane	AA	ug/L	0.10
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	Endrin	AA	ug/L	0.02
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	Surr: Decachlorobiphenyl	0.643	%	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$PEST	Surr: Tetrachloro-m-xylene	0.525	%	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624	Chloromethane	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624	Bromomethane	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624	Chloroethane	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624	Acrolein	0	ug/L	100.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		Acrylonitrile	0	ug/L	100.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		Methylene Chloride	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		Chloroform	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		1,2-Dichloroethane-d4	46.2	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		Benzene	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		Trichloroethene	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		Bromoform	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		1,1,2,2-Tetrachloroethane	14.3	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		Toluene	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		Toluene-d8	56.8	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		Chlorobenzene	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		Ethylbenzene	0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		Bromofluorobenzene	70.8	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		1,3-Dichlorobenzene	9.3	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		1,4-Dichlorobenzene	11.0	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		1,2-Dichlorobenzene	14.3	ug/L	5.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		2-Propanone	0	ug/L	60

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		2-Butanone	0	ug/L	60
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		Tetrahydrofuran	0	ug/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$624		TOTAL AMOUNT	373	ug/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		pyridine	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		2-Fluorophenol	44.5	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		aniline	0	ug/L	6.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Phenol-d6	29.6	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Phenol	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		n-decane	0	ug/L	6.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		o-cresol	0	ug/L	6.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		acetophenone	0	ug/L	6.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Hexachloroethane	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Nitrobenzene-d5	75.0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		p-cresol	0	ug/L	6.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Nitrobenzene	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Isophorone	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Decafluorobiphenyl	56.6	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Naphthalene	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		1-Fluoronaphthalene	66.4	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		alpha terpineol	0	ug/L	6.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	Acenaphthylene	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	Acenaphthene	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	4-Nitrophenol	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	Diethyl phthalate	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	Fluorene	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	2,4,6-Tribromophenol	80.7	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	Pentachlorophenol	0	ug/L	6.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	n-octadecane	0	ug/L	6.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	Phenanthrene	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	Anthracene	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	carbazole	0	ug/L	6.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	Fluoranthene	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	Benzidine	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Pyrene	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Chrysene	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Hexachloroethane	0	ug/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Diethylphthalate	0	ug/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Pentanal, 2-methyl- T	3	ug/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		2-Butenedioic acid, 2-methoxy-, dimeth T	2	ug/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	3	ug/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		2-Propanol, 2-methyl- T	1	ug/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Isopropyl Alcohol T	1	ug/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		2-Propanol, 2-methyl- T2	2	ug/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		2-Butanol, 3-methyl- T	3	ug/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		1-Butanol, 3-methyl-, carbonate (2:1) T	2	ug/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Trimebutine T	1	ug/L	
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625		Cyclohexane, methylene- T	1	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07556	LM13	Little Miami Watershed	13 (3261-03)	9/25/2012	10:30	\$625	TOTAL AMOUNT	672	ug/L	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	86	CFU/100mL	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	E-COLI	E.coli (Colilert)	88	MPN	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	TDS	Total Dissolved Solids	560	mg/L	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	SO4	Sulfate	53.2	mg/L	12.5
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	CL	Chloride	102	mg/L	1.00
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	TSS	Tot. Suspended Solids	16	mg/L	2
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	SSC	Suspended Sediment Concentration	18.7	mg/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	HARD	Hardness as CaCO3	284	mg/l	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	COD	COD	42	mg/L	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	658	uS/cm	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	16.58	Deg C	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	PH_FLD	pH (Field)	8.07	S.U.	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	8.45	mg/l	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	784	uS/cm	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$ICP	Aluminum	0.565	mg/L	0.348
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$ICP	Antimony	0.00	mg/L	0.006
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$ICP	Barium	0.0706	mg/L	0.003
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$ICP	Calcium	73.9	mg/L	0.066
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$ICP	Chromium	0.00	mg/L	0.006
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$ICP	Copper	0.0112	mg/L	0.006
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$ICP	Iron	1.12	mg/L	0.018
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$ICP	Lead	0.00	mg/L	0.006
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$ICP	Magnesium	25.5	mg/L	0.021
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$ICP	Manganese	0.227	mg/L	0.009
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$ICP	Nickel	0.00437	mg/L	0.003
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$ICP	Selenium	0.0199	mg/L	0.009
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$ICP	Silver	0.00	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$ICP	Strontium	0.324	mg/L	0.009
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$ICP	Thallium	0.0248	mg/L	0.012
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$ICP	Tin	0.00	mg/L	0.006
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$ICP	Zinc	0.0141	mg/L	0.006
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	PB_FU	Lead by Furnace	1.10	ug/L	1.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	AS_FU	Arsenic by Furnace	1.89	ug/L	1.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	CU_FU	Copper by Furnace	AA	ug/L	1
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	NO3NO2	Nitrate + Nitrite	2.21	mg/L	0.5
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	TKN	Total Kjeldahl Nitrogen	0.5367	mg/L	0.5
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	NO2	Nitrite as N	0.0143	mg/l	0.005
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	NO3	Nitrate as N (calculated)	2.1957	mg/l	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	CHLOROPHYLL	Chlorophyll	8.54	mg/m3	1.00
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST	Aldrin	AA	ug/L	0.02
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST	Chlordane	AA	ug/L	0.10
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST	Endrin	AA	ug/L	0.02
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST		Toxaphene	AA	ug/L	1.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST		PCB 1016	AA	ug/L	0.5
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST		PCB 1221	AA	ug/L	0.5
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST		PCB 1232	AA	ug/L	0.5
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST		PCB 1242	AA	ug/L	0.5
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST		PCB 1248	AA	ug/L	0.5
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST		PCB 1254	AA	ug/L	0.5
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST		PCB 1260	AA	ug/L	0.5
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST		Surr: Decachlorobiphenyl	1.08	%	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$PEST		Surr: Tetrachloro-m-xylene	0.948	%	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Bromochloromethane	50.0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Chloromethane	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Vinyl Chloride	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Bromomethane	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Chloroethane	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Acrolein	0	ug/L	100.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Acrylonitrile	0	ug/L	100.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Methylene Chloride	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Chloroform	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		1,2-Dichloroethane-d4	44.6	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Benzene	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Trichloroethene	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Bromodichloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Bromoform	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Toluene	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Toluene-d8	57.3	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Chlorobenzene	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Ethylbenzene	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Bromofluorobenzene	73.0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		2-Propanone	0	ug/L	60
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		2-Butanone	0	ug/L	60
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		Tetrahydrofuran	0	ug/L	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		2-chloroethoxy ethene	0	ug/L	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$624		TOTAL AMOUNT	325	ug/L	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		pyridine	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		2-Fluorophenol	33.2	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		aniline	0	ug/L	6.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Phenol-d6	22.5	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Phenol	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		2-Chlorophenol	0	ug/L	6.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		n-decane	0	ug/L	6.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		o-cresol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		acetophenone	0	ug/L	6.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Hexachloroethane	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Nitrobenzene-d5	62.1	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		p-cresol	0	ug/L	6.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Nitrobenzene	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Isophorone	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Decafluorobiphenyl	58.2	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		2-Nitrophenol	0	ug/L	6.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Naphthalene	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		1-Fluoronaphthalene	60.4	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		alpha terpineol	0	ug/L	6.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Acenaphthylene	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Acenaphthene	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		4-Nitrophenol	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Diethyl phthalate	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Fluorene	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		2,4,6-Tribromophenol	62.7	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Pentachlorophenol	0	ug/L	6.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		n-octadecane	0	ug/L	6.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Phenanthrene	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Anthracene	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		carbazole	0	ug/L	6.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Fluoranthene	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Benzidine	0	ug/L	6.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Pyrene	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Chrysene	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Perylene-D12	50.0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Hexachloroethane	0	ug/L	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		2,3-Dichloroaniline	0	ug/L	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Diethylphthalate	0	ug/L	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Benzo[ghi]perylene	0	ug/L	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Pentanal, 2-methyl- T	2	ug/L	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Thiazole, 5-methoxy- T	1	ug/L	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	3	ug/L	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		2-Propanol, 2-methyl- T	2	ug/L	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		2-Butanol, 3-chloro-, (R*,S*)- T	2	ug/L	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		2,3-Butanediol, 2,3-dimethyl- T	3	ug/L	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Propane, 2-chloro-1-methoxy- T	4	ug/L	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		Cyclohexane, (1,2,2-trimethylbutyl)- T	2	ug/L	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		trans-Decalin, 2-methyl- T	1	ug/L	
AC07557	LM14	Little Miami Watershed	14	9/25/2012	11:00	\$625		TOTAL AMOUNT	619	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10		MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10		E-COLI	E.coli (Colilert)	2420	MPN	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10		TDS	Total Dissolved Solids	180	mg/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10		BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10		SO4	Sulfate	26.9	mg/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10		CL	Chloride	29.4	mg/L	1.00
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10		TSS	Tot. Suspended Solids	12	mg/L	2
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10		SSC	Suspended Sediment Concentration	75.8	mg/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10		HARD	Hardness as CaCO3	92	mg/l	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10		COD	COD	5	mg/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	234	uS/cm	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10		TEMP_FLD	Temperature (Field) Celsius	19.13	Deg C	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10		PH_FLD	pH (Field)	7.73	S.U.	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10		DO_FLD	Dissolved Oxygen (field) mg/L	7.67	mg/l	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10		CONDUCTIVITY	Specific Conductivity (uS/cm)	264	uS/cm	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10		\$ICP	Aluminum	1.01	mg/L	0.348

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$ICP	Antimony	0.00	mg/L	0.006
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$ICP	Arsenic	0.00	mg/L	0.012
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$ICP	Barium	0.0467	mg/L	0.003
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$ICP	Beryllium	0.00	mg/L	0.009
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$ICP	Cadmium	0.00	mg/L	0.012
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$ICP	Calcium	27.8	mg/L	0.066
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$ICP	Chromium	0.00	mg/L	0.006
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$ICP	Cobalt	0.00	mg/L	0.006
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$ICP	Copper	0.0350	mg/L	0.006
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$ICP	Iron	1.89	mg/L	0.018
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$ICP	Lead	0.0179	mg/L	0.006
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$ICP	Magnesium	5.78	mg/L	0.021
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$ICP	Manganese	0.0749	mg/L	0.009
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$ICP	Nickel	0.00631	mg/L	0.003
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$ICP	Selenium	0.00	mg/L	0.009
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$ICP	Silver	0.00	mg/L	0.003
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$ICP	Strontium	0.109	mg/L	0.009
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$ICP	Thallium	0.00	mg/L	0.012
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$ICP	Tin	0.00	mg/L	0.006
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$ICP	Zinc	0.123	mg/L	0.006
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	PB_FU	Lead by Furnace	12.97	ug/L	1.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	AS_FU	Arsenic by Furnace	17.88	ug/L	1.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	CU_FU	Copper by Furnace	28	ug/L	1
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	NH3	Ammonia as N	1.0894	mg/L	0.5
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	NO3NO2	Nitrate + Nitrite	0.5968	mg/L	0.5
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	TKN	Total Kjeldahl Nitrogen	3.995	mg/L	0.5
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	TKP	Total Kjeldahl Phosphorus	0.6342	mg/L	0.5
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	NO2	Nitrite as N	0.0628	mg/l	0.005
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	NO3	Nitrate as N (calculated)	0.5340	mg/l	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	CHLOROPHYLL	Chlorophyll	9.92	mg/m3	1.00
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	Aldrin	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	Chlordane	AA	ug/L	0.10
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	Dieldrin	AA	ug/L	0.02
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	Endrin	AA	ug/L	0.02
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	Heptachlor	AA	ug/L	0.02
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	Toxaphene	AA	ug/L	1.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	PCB 1016	AA	ug/L	0.5
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	PCB 1221	AA	ug/L	0.5
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	PCB 1232	AA	ug/L	0.5
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	PCB 1242	AA	ug/L	0.5
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	PCB 1248	AA	ug/L	0.5
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	PCB 1254	AA	ug/L	0.5
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	PCB 1260	AA	ug/L	0.5
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	Surr: Decachlorobiphenyl	0.603	%	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$PEST	Surr: Tetrachloro-m-xylene	0.772	%	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624	Chloromethane	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624	Vinyl Chloride	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624	Bromomethane	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624	Chloroethane	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624	Acrolein	0	ug/L	100.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		Acrylonitrile	0	ug/L	100.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		Methylene Chloride	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		Chloroform	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		1,2-Dichloroethane-d4	44.4	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		Benzene	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		Trichloroethene	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		Bromodichloromethane	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		Dibromochloromethane	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		Bromoform	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		Tetrachloroethene	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		Toluene	6.5	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		Toluene-d8	57.5	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		Chlorobenzene	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		Ethylbenzene	6.0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		Bromofluorobenzene	73.7	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		2-Propanone	0	ug/L	60

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		2-Butanone	0	ug/L	60
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		Tetrahydrofuran	0	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		2-chloroethoxy ethene	0	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$624		TOTAL AMOUNT	338	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		pyridine	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		2-Fluorophenol	27.1	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		aniline	0	ug/L	6.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Phenol-d6	19.7	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Phenol	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		2-Chlorophenol	0	ug/L	6.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		n-decane	0	ug/L	6.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		o-cresol	0	ug/L	6.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		acetophenone	0	ug/L	6.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Hexachloroethane	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Nitrobenzene-d5	47.8	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		p-cresol	0	ug/L	6.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Nitrobenzene	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Isophorone	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Decafluorobiphenyl	33.2	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		2-Nitrophenol	0	ug/L	6.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Naphthalene	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		1-Fluoronaphthalene	39.6	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		alpha terpineol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Acenaphthylene	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Acenaphthene	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		4-Nitrophenol	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Diethyl phthalate	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Fluorene	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		2,4,6-Tribromophenol	73.4	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Pentachlorophenol	0	ug/L	6.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		n-octadecane	0	ug/L	6.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Phenanthrene	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Anthracene	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		carbazole	0	ug/L	6.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Fluoranthene	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Benzidine	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Pyrene	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Chrysene	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Perylene-D12	50.0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Hexachloroethane	0	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		2,3-Dichloroaniline	0	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Diethylphthalate	0	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Bis(2-ethylhexyl) phthalate	5	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Benzo[b]fluoranthene	1	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Benzo[k]fluoranthene	2	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Benzo[ghi]perylene	0	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Benzene, 1,3-dimethyl- T	12	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Ethyl cyclopropanecarboxylate T	12	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		n-Hexadecanoic acid T	46	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		E-15-Heptadecenal T	9	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Octadec-9-enoic acid T	14	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		3-Trifluoroacetyltetradecane T	11	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Octadecanoic acid T	23	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		2,6,10,14,18,22-Tetracosahexaene, 2,6, T	8	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Cholesterol T	41	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625		Cholesterol T	64	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625	Cholestane, 3-ethoxy-, (3.beta.,5.alpha. T	11	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625	Stigmast-7-en-3-ol, (3.beta.,5.alpha., T	12	ug/L	
AC07620	LM78	Little Miami Watershed	78	9/26/2012	11:10	\$625	TOTAL AMOUNT	816	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	E-COLI	E.coli (Colilert)	2420	MPN	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	TDS	Total Dissolved Solids	250	mg/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	BOD	Biochemical Oxygen Demand	6	mg/L	2
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	SO4	Sulfate	51.8	mg/L	12.5
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	CL	Chloride	65.6	mg/L	1.00
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	TSS	Tot. Suspended Solids	22	mg/L	2
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	SSC	Suspended Sediment Concentration	10.0	mg/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	HARD	Hardness as CaCO3	164	mg/l	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	COD	COD	33	mg/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	411	uS/cm	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	TEMP_FLD	Temperature (Field) Celsius	18.27	Deg C	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	PH_FLD	pH (Field)	8.23	S.U.	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	DO_FLD	Dissolved Oxygen (field) mg/L	9.59	mg/l	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	472	uS/cm	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$ICP	Antimony	0.00	mg/L	0.006
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$ICP	Arsenic	0.0423	mg/L	0.012
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$ICP	Barium	0.0435	mg/L	0.003
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$ICP	Calcium	43.0	mg/L	0.066
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$ICP	Chromium	0.00	mg/L	0.006
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$ICP	Copper	0.0190	mg/L	0.006
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$ICP	Iron	0.527	mg/L	0.018
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$ICP	Lead	0.00	mg/L	0.006
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$ICP	Magnesium	10.5	mg/L	0.021
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$ICP	Manganese	0.0345	mg/L	0.009
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$ICP	Nickel	0.00314	mg/L	0.003



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$ICP	Selenium	0.0143	mg/L	0.009
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$ICP	Silver	0.00	mg/L	0.003
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$ICP	Strontium	0.179	mg/L	0.009
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$ICP	Thallium	0.00	mg/L	0.012
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$ICP	Tin	0.00	mg/L	0.006
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$ICP	Zinc	0.0395	mg/L	0.006
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	PB_FU	Lead by Furnace	3.18	ug/L	1.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	AS_FU	Arsenic by Furnace	40.03	ug/L	1.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	CU_FU	Copper by Furnace	11.6	ug/L	1
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	NH3	Ammonia as N	0	mg/L	0.5
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	NO3NO2	Nitrate + Nitrite	0.673	mg/L	0.5
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	TKN	Total Kjeldahl Nitrogen	1.040	mg/L	0.5
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	NO2	Nitrite as N	0.0535	mg/l	0.005
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	NO3	Nitrate as N (calculated)	0.6195	mg/l	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	CHLOROPHYLL	Chlorophyll	5.34	mg/m3	1.00
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	Aldrin	AA	ug/L	0.02
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	Chlordane	AA	ug/L	0.10
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	Endrin	AA	ug/L	0.02
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	Surr: Decachlorobiphenyl	0.644	%	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$PEST	Surr: Tetrachloro-m-xylene	0.879	%	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624	Chloromethane	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624	Bromomethane	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624	Chloroethane	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624	Acrolein	0	ug/L	100.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624	Acrylonitrile	0	ug/L	100.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624	Methylene Chloride	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624	Chloroform	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624	1,2-Dichloroethane-d4	46.1	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624	Benzene	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624	Trichloroethene	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624	2-Chloroethylvinylether	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624		Bromoform	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624		Toluene	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624		Toluene-d8	56.8	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624		Chlorobenzene	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624		Ethylbenzene	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624		Bromofluorobenzene	77.8	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624		2-Propanone	0	ug/L	60
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624		2-Butanone	0	ug/L	60
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624		Tetrahydrofuran	0	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$624		TOTAL AMOUNT	348	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		pyridine	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		2-Fluorophenol	9.4	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		aniline	0	ug/L	6.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Phenol-d6	15.0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Phenol	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		n-decane	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		o-cresol	0	ug/L	6.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		acetophenone	0	ug/L	6.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Hexachloroethane	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Nitrobenzene-d5	46.3	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		p-cresol	0	ug/L	6.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Nitrobenzene	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Isophorone	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Decafluorobiphenyl	37.2	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Naphthalene	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		1-Fluoronaphthalene	41.9	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		alpha terpineol	0	ug/L	6.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Acenaphthylene	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Acenaphthene	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		4-Nitrophenol	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		2,4-Dinitrotoluene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Diethyl phthalate	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Fluorene	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		2,4,6-Tribromophenol	15.6	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Pentachlorophenol	0	ug/L	6.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		n-octadecane	0	ug/L	6.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Phenanthrene	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Anthracene	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		carbazole	0	ug/L	6.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Fluoranthene	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Benzidine	0	ug/L	6.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Pyrene	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Chrysene	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Hexachloroethane	0	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Diethylphthalate	0	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		2-Hexene, 2,5,5-trimethyl- T	5	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	7	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Pentane, 2,3,4-trimethyl- T	3	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Pentane, 2,3,4-trimethyl- T2	16	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		1-Hexene, 4,5-dimethyl- T	4	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Pentane, 2,3,4-trimethyl- T3	3	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		2-Propanol, 1-(2-methoxy-1-methylethox T	3	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		2-Propanol, 1-(2-methoxypropoxy)- T	4	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		2-Pyrrolidinone, 1-methyl- T	2	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Ethanol, 2-[2-(2-butoxyethoxy)ethoxy]- T	3	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		Tris(3-chloropropyl) phosphate T	3	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		17-(1,5-Dimethylhexyl)-10,13-dimethyl- T	3	ug/L	
AC07621	LM73	Little Miami Watershed	73	9/26/2012	12:30	\$625		TOTAL AMOUNT	522	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40		MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40		E-COLI	E.coli (Colilert)	2420	MPN	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40		TDS	Total Dissolved Solids	310	mg/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40		BOD	Biochemical Oxygen Demand	4	mg/L	2
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40		SO4	Sulfate	43.5	mg/L	12.5
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40		CL	Chloride	78.0	mg/L	1.00
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40		TSS	Tot. Suspended Solids	18	mg/L	2
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40		SSC	Suspended Sediment Concentration	11.8	mg/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40		HARD	Hardness as CaCO3	176	mg/l	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40		COD	COD	14	mg/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	452	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	TEMP_FLD	Temperature (Field) Celsius	16.81	Deg C	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	PH_FLD	pH (Field)	8.32	S.U.	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	DO_FLD	Dissolved Oxygen (field) mg/L	9.12	mg/l	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	536	uS/cm	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$ICP	Antimony	0.00	mg/L	0.006
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$ICP	Arsenic	0.00	mg/L	0.012
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$ICP	Barium	0.0306	mg/L	0.003
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$ICP	Calcium	48.5	mg/L	0.066
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$ICP	Chromium	0.00	mg/L	0.006
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$ICP	Copper	0.0142	mg/L	0.006
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$ICP	Iron	0.594	mg/L	0.018
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$ICP	Lead	0.00	mg/L	0.006
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$ICP	Magnesium	10.5	mg/L	0.021
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$ICP	Manganese	0.0480	mg/L	0.009
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$ICP	Nickel	0.00379	mg/L	0.003
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$ICP	Selenium	0.0239	mg/L	0.009
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$ICP	Silver	0.00	mg/L	0.003
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$ICP	Strontium	0.173	mg/L	0.009
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$ICP	Thallium	0.00	mg/L	0.012
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$ICP	Tin	0.00	mg/L	0.006
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$ICP	Zinc	0.0329	mg/L	0.006
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	PB_FU	Lead by Furnace	2.52	ug/L	1.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	AS_FU	Arsenic by Furnace	1.23	ug/L	1.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	CU_FU	Copper by Furnace	6.6	ug/L	1
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	NH3	Ammonia as N	0	mg/L	0.5
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	TKN	Total Kjeldahl Nitrogen	0.5655	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	NO2	Nitrite as N	0.0232	mg/l	0.005
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	Aldrin	AA	ug/L	0.02
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	Chlordane	AA	ug/L	0.10
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	Dieldrin	AA	ug/L	0.02
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	Endrin	AA	ug/L	0.02
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	Heptachlor	AA	ug/L	0.02
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	Toxaphene	AA	ug/L	1.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	PCB 1016	AA	ug/L	0.5
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	PCB 1221	AA	ug/L	0.5
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	PCB 1232	AA	ug/L	0.5
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	PCB 1242	AA	ug/L	0.5
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	PCB 1248	AA	ug/L	0.5
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	PCB 1254	AA	ug/L	0.5
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	PCB 1260	AA	ug/L	0.5
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	Surr: Decachlorobiphenyl	0.736	%	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$PEST	Surr: Tetrachloro-m-xylene	0.865	%	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624	Chloromethane	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		Vinyl Chloride	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		Bromomethane	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		Chloroethane	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		Acrolein	0	ug/L	100.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		Acrylonitrile	0	ug/L	100.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		Methylene Chloride	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		Chloroform	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		1,2-Dichloroethane-d4	45.2	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		Benzene	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		Trichloroethene	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		Bromodichloromethane	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		Dibromochloromethane	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		Bromoform	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		Tetrachloroethene	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		Toluene	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		Toluene-d8	57.1	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		Chlorobenzene	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624		Ethylbenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624	Bromofluorobenzene	80.1	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624	2-Propanone	0	ug/L	60
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624	2-Butanone	0	ug/L	60
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624	Tetrahydrofuran	0	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624	2-chloroethoxy ethene	0	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$624	TOTAL AMOUNT	332	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	pyridine	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	2-Fluorophenol	24.8	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	aniline	0	ug/L	6.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Phenol-d6	17.4	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Phenol	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	2-Chlorophenol	0	ug/L	6.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	n-decane	0	ug/L	6.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	o-cresol	0	ug/L	6.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	acetophenone	0	ug/L	6.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Hexachloroethane	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Nitrobenzene-d5	46.7	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	p-cresol	0	ug/L	6.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Nitrobenzene	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Isophorone	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Decafluorobiphenyl	38.8	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	2-Nitrophenol	0	ug/L	6.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		Naphthalene	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		1-Fluoronaphthalene	44.9	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		alpha terpineol	0	ug/L	6.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		Acenaphthylene	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		Acenaphthene	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		4-Nitrophenol	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		Diethyl phthalate	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		Fluorene	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		2,4,6-Tribromophenol	66.4	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		Pentachlorophenol	0	ug/L	6.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		n-octadecane	0	ug/L	6.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		Phenanthrene	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625		Anthracene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	carbazole	0	ug/L	6.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Fluoranthene	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Benidine	0	ug/L	6.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Pyrene	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Chrysene	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Perylene-D12	50.0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Hexachloroethane	0	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	2,3-Dichloroaniline	0	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Diethylphthalate	0	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Benzo[ghi]perylene	0	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	2-Undecenal T	2	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	2-Hexene, 3,5,5-trimethyl- T	5	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	1-Pentene, 3-ethyl-2-methyl- T	1	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	3-Octene, 2,2-dimethyl- T	2	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	2-Butenal, 3-methyl- T	7	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	N,N'-Hexamethylenebisacetamide T	2	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Undecane, 3,3-dimethyl- T	4	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Pentane, 2,3,4-trimethyl- T	15	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	1,3-Cyclobutanedione, 2,2,4,4-tetramet T	4	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Pentane, 2,3,4-trimethyl- T2	2	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Ethanol, 2-[2-(2-butoxyethoxy)ethoxy]- T	2	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	Diethyltoluamide T	8	ug/L	
AC07622	LM74	Little Miami Watershed	74	9/26/2012	12:40	\$625	TOTAL AMOUNT	594	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	E-COLI	E.coli (Colilert)	2420	MPN	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	TDS	Total Dissolved Solids	250	mg/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	SO4	Sulfate	61.8	mg/L	12.5
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	CL	Chloride	93.5	mg/L	1.00
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	TSS	Tot. Suspended Solids	24	mg/L	2
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	SSC	Suspended Sediment Concentration	10.3	mg/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	HARD	Hardness as CaCO3	210	mg/l	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	COD	COD	19	mg/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	559	uS/cm	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	TEMP_FLD	Temperature (Field) Celsius	18.40	Deg C	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	PH_FLD	pH (Field)	8.32	S.U.	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	DO_FLD	Dissolved Oxygen (field) mg/L	10.81	mg/l	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	640	uS/cm	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$ICP	Antimony	0.00	mg/L	0.006
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$ICP	Arsenic	0.0506	mg/L	0.012
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$ICP	Barium	0.0478	mg/L	0.003
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$ICP	Calcium	58.7	mg/L	0.066
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$ICP	Chromium	0.00	mg/L	0.006
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$ICP	Copper	0.0162	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$ICP	Iron	0.422	mg/L	0.018
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$ICP	Lead	0.00	mg/L	0.006
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$ICP	Magnesium	14.8	mg/L	0.021
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$ICP	Manganese	0.0355	mg/L	0.009
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$ICP	Nickel	0.00341	mg/L	0.003
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$ICP	Selenium	0.0226	mg/L	0.009
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$ICP	Silver	0.00	mg/L	0.003
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$ICP	Strontium	0.234	mg/L	0.009
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$ICP	Thallium	0.00	mg/L	0.012
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$ICP	Tin	0.00	mg/L	0.006
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$ICP	Zinc	0.0279	mg/L	0.006
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	PB_FU	Lead by Furnace	1.97	ug/L	1.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	AS_FU	Arsenic by Furnace	51.22	ug/L	1.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	CU_FU	Copper by Furnace	9.1	ug/L	1
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	NH3	Ammonia as N	0	mg/L	0.5
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	NO3NO2	Nitrate + Nitrite	0.603	mg/L	0.5
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	TKN	Total Kjeldahl Nitrogen	0.7281	mg/L	0.5
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	NO2	Nitrite as N	0.0339	mg/l	0.005
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	NO3	Nitrate as N (calculated)	0.5691	mg/l	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	CHLOROPHYLL	Chlorophyll	6.41	mg/m3	1.00
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	Aldrin	AA	ug/L	0.02
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	Chlordane	AA	ug/L	0.10
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	Dieldrin	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	Endrin	AA	ug/L	0.02
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	Heptachlor	AA	ug/L	0.02
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	Toxaphene	AA	ug/L	1.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	PCB 1016	AA	ug/L	0.5
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	PCB 1221	AA	ug/L	0.5
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	PCB 1232	AA	ug/L	0.5
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	PCB 1242	AA	ug/L	0.5
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	PCB 1248	AA	ug/L	0.5
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	PCB 1254	AA	ug/L	0.5
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	PCB 1260	AA	ug/L	0.5
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	Surr: Decachlorobiphenyl	1.03	%	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$PEST	Surr: Tetrachloro-m-xylene	0.855	%	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624	Chloromethane	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624	Vinyl Chloride	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624	Bromomethane	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624	Chloroethane	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624	Acrolein	0	ug/L	100.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624	Acrylonitrile	0	ug/L	100.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624	Methylene Chloride	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624	Chloroform	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624	1,2-Dichloroethane-d4	44.7	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		Benzene	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		Trichloroethene	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		Bromodichloromethane	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		Dibromochloromethane	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		Bromoform	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		Tetrachloroethene	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		Toluene	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		Toluene-d8	60.4	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		Chlorobenzene	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		Ethylbenzene	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		Bromofluorobenzene	84.6	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		2-Propanone	0	ug/L	60
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		2-Butanone	0	ug/L	60
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		Tetrahydrofuran	0	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		2-chloroethoxy ethene	0	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$624		TOTAL AMOUNT	340	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		pyridine	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		2-Fluorophenol	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		aniline	0	ug/L	6.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	Phenol-d6	4.5	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	Phenol	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	2-Chlorophenol	0	ug/L	6.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	n-decane	0	ug/L	6.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	o-cresol	0	ug/L	6.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	acetophenone	0	ug/L	6.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	Hexachloroethane	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	Nitrobenzene-d5	46.6	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	p-cresol	0	ug/L	6.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	Nitrobenzene	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	Isophorone	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	Decafluorobiphenyl	33.8	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	2-Nitrophenol	0	ug/L	6.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	Naphthalene	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	1-Fluoronaphthalene	40.3	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	alpha terpineol	0	ug/L	6.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625	Acenaphthylene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Acenaphthene	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		4-Nitrophenol	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Diethyl phthalate	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Fluorene	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		2,4,6-Tribromophenol	5.2	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Pentachlorophenol	0	ug/L	6.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		n-octadecane	0	ug/L	6.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Phenanthrene	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Anthracene	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		carbazole	0	ug/L	6.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Fluoranthene	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Benzidine	0	ug/L	6.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Pyrene	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Chrysene	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Perylene-D12	50.0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Benzo(b)fluoranthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Hexachloroethane	0	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		2,3-Dichloroaniline	0	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Diethylphthalate	0	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Benzo[ghi]perylene	0	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		2-Hexene, 3,5,5-trimethyl- T	5	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Hexane, 3-methyl-4-methylene- T	2	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	7	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Cyclohexane, 1-isopropyl-3-methyl-, (E T	2	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Hexanoic acid, 1,1-dimethylpropyl este T	3	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Decane, 3,3,4-trimethyl- T	15	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		1-Heptene, 4-methyl- T	4	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Pentane, 2,3,4-trimethyl- T	3	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		2-Propanol, 1-(2-methoxy-1-methylethox T	2	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		2-Propanol, 1-(2-methoxypropoxy)- T	3	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		Triisopropylphosphate T	3	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		17-(1,5-Dimethylhexyl)-10,13-dimethyl- T	2	ug/L	
AC07623	LM75	Little Miami Watershed	75	9/26/2012	12:50	\$625		TOTAL AMOUNT	482	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00		MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00		E-COLI	E.coli (Colilert)	2420	MPN	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00		TDS	Total Dissolved Solids	380	mg/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00		BOD	Biochemical Oxygen Demand	4	mg/L	2
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00		SO4	Sulfate	84.5	mg/L	25.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00		CL	Chloride	117	mg/L	2.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	TSS	Tot. Suspended Solids	14	mg/L	2
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	SSC	Suspended Sediment Concentration	13.8	mg/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	HARD	Hardness as CaCO3	244	mg/l	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	COD	COD	25	mg/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	632	uS/cm	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	TEMP_FLD	Temperature (Field) Celsius	18.27	Deg C	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	PH_FLD	pH (Field)	8.38	S.U.	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	DO_FLD	Dissolved Oxygen (field) mg/L	11.04	mg/l	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	725	uS/cm	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$ICP	Antimony	0.00	mg/L	0.006
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$ICP	Arsenic	0.0632	mg/L	0.012
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$ICP	Barium	0.0511	mg/L	0.003
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$ICP	Calcium	66.0	mg/L	0.066
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$ICP	Chromium	0.00	mg/L	0.006
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$ICP	Copper	0.0209	mg/L	0.006
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$ICP	Iron	0.508	mg/L	0.018
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$ICP	Lead	0.00	mg/L	0.006
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$ICP	Magnesium	17.3	mg/L	0.021
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$ICP	Manganese	0.0417	mg/L	0.009
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$ICP	Nickel	0.00428	mg/L	0.003
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$ICP	Selenium	0.0162	mg/L	0.009
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$ICP	Silver	0.00	mg/L	0.003
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$ICP	Strontium	0.267	mg/L	0.009
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$ICP	Thallium	0.00	mg/L	0.012
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$ICP	Tin	0.00	mg/L	0.006
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$ICP	Zinc	0.0523	mg/L	0.006
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	PB_FU	Lead by Furnace	2.83	ug/L	1.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	AS_FU	Arsenic by Furnace	54.12	ug/L	1.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	CU_FU	Copper by Furnace	14.0	ug/L	1
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	NH3	Ammonia as N	0	mg/L	0.5
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	NO3NO2	Nitrate + Nitrite	0.530	mg/L	0.5
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	TKN	Total Kjeldahl Nitrogen	0.8111	mg/L	0.5
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	NO2	Nitrite as N	0.0318	mg/l	0.005
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	NO3	Nitrate as N (calculated)	0.4982	mg/l	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	CHLOROPHYLL	Chlorophyll	5.87	mg/m3	1.00
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	Aldrin	AA	ug/L	0.02
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	Chlordane	AA	ug/L	0.10
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	Endrin	AA	ug/L	0.02
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	Toxaphene	AA	ug/L	1.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST	PCB 1254	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST		PCB 1260	AA	ug/L	0.5
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST		Surr: Decachlorobiphenyl	0.989	%	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$PEST		Surr: Tetrachloro-m-xylene	0.973	%	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Bromochloromethane	50.0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Chloromethane	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Vinyl Chloride	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Bromomethane	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Chloroethane	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Acrolein	0	ug/L	100.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Acrylonitrile	0	ug/L	100.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Methylene Chloride	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Chloroform	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		1,2-Dichloroethane-d4	44.8	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Benzene	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Trichloroethene	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Bromodichloromethane	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Bromoform	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Tetrachloroethene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Toluene	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Toluene-d8	57.0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Chlorobenzene	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Ethylbenzene	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Bromofluorobenzene	83.9	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		2-Propanone	0	ug/L	60
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		2-Butanone	0	ug/L	60
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		Tetrahydrofuran	0	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		2-chloroethoxy ethene	0	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$624		TOTAL AMOUNT	336	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		pyridine	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		2-Fluorophenol	22.9	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		aniline	0	ug/L	6.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Phenol-d6	16.4	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Phenol	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		2-Chlorophenol	0	ug/L	6.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		n-decane	0	ug/L	6.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		o-cresol	0	ug/L	6.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		acetophenone	0	ug/L	6.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Hexachloroethane	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Nitrobenzene-d5	45.6	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		p-cresol	0	ug/L	6.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Nitrobenzene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Isophorone	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Decafluorobiphenyl	33.2	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		2-Nitrophenol	0	ug/L	6.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Naphthalene	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		1-Fluoronaphthalene	39.7	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		alpha terpineol	0	ug/L	6.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Acenaphthylene	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Acenaphthene	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		4-Nitrophenol	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Diethyl phthalate	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Fluorene	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		2,4,6-Tribromophenol	63.0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Pentachlorophenol	0	ug/L	6.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		n-octadecane	0	ug/L	6.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Phenanthrene	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Anthracene	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		carbazole	0	ug/L	6.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Fluoranthene	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Benzidine	0	ug/L	6.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Pyrene	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Chrysene	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Perylene-D12	50.0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Hexachloroethane	0	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		2,3-Dichloroaniline	0	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Diethylphthalate	0	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Benzo[ghi]perylene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		2-Hexene, 2,5,5-trimethyl- T	5	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Hexane, 3-methyl-4-methylene- T	2	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		2-Butenal, 3-methyl- T	7	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Heptane, 3,3,5-trimethyl- T	2	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Pentane, 2,3,4-trimethyl- T	15	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		1-Octene, 3-ethyl- T	4	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		1-Hexene, 4,5-dimethyl- T	3	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Thiophene, 2-ethyltetrahydro- T	3	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Diethyltoluamide T	2	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Triisopropylphosphate T	3	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		n-Hexadecanoic acid T	5	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		Cholesterol T	2	ug/L	
AC07624	LM76	Little Miami Watershed	76	9/26/2012	13:00	\$625		TOTAL AMOUNT	573	ug/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15		MF_CF	Fecal Coliform, Membrane Filter	6000	CFU/100mL	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15		E-COLI	E.coli (Colilert)	2420	MPN	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15		TDS	Total Dissolved Solids	380	mg/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15		BOD	Biochemical Oxygen Demand	5	mg/L	2
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15		SO4	Sulfate	58.8	mg/L	12.5
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15		CL	Chloride	89.1	mg/L	2.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15		TSS	Tot. Suspended Solids	14	mg/L	2
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15		SSC	Suspended Sediment Concentration	7.8	mg/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15		HARD	Hardness as CaCO3	204	mg/l	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15		COD	COD	126	mg/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	474	uS/cm	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15		TEMP_FLD	Temperature (Field) Celsius	18.37	Deg C	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15		PH_FLD	pH (Field)	8.6	S.U.	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15		DO_FLD	Dissolved Oxygen (field) mg/L	10.25	mg/l	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15		CONDUCTIVITY	Specific Conductivity (uS/cm)	543	uS/cm	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15		\$ICP	Aluminum	0.00	mg/L	0.348
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15		\$ICP	Antimony	0.00	mg/L	0.006
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15		\$ICP	Arsenic	0.0257	mg/L	0.012
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15		\$ICP	Barium	0.0390	mg/L	0.003
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15		\$ICP	Beryllium	0.00	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$ICP	Calcium	56.7	mg/L	0.066
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$ICP	Chromium	0.00	mg/L	0.006
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$ICP	Copper	0.0107	mg/L	0.006
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$ICP	Iron	0.226	mg/L	0.018
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$ICP	Lead	0.00	mg/L	0.006
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$ICP	Magnesium	13.9	mg/L	0.021
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$ICP	Manganese	0.0272	mg/L	0.009
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$ICP	Nickel	0.00313	mg/L	0.003
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$ICP	Selenium	0.0193	mg/L	0.009
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$ICP	Silver	0.00	mg/L	0.003
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$ICP	Strontium	0.205	mg/L	0.009
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$ICP	Thallium	0.00	mg/L	0.012
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$ICP	Tin	0.00	mg/L	0.006
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$ICP	Zinc	0.0198	mg/L	0.006
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	PB_FU	Lead by Furnace	1.71	ug/L	1.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	AS_FU	Arsenic by Furnace	20.21	ug/L	1.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	CU_FU	Copper by Furnace	9.0	ug/L	1
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	NH3	Ammonia as N	0	mg/L	0.5
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	TKN	Total Kjeldahl Nitrogen	1.071	mg/L	0.5
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	NO2	Nitrite as N	0.0280	mg/l	0.005
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	CHLOROPHYLL	Chlorophyll	6.94	mg/m3	1.00
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	Aldrin	AA	ug/L	0.02
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	Gamma-BHC	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	Chlordane	AA	ug/L	0.10
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	Dieldrin	AA	ug/L	0.02
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	Endrin	AA	ug/L	0.02
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	Heptachlor	AA	ug/L	0.02
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	Toxaphene	AA	ug/L	1.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	PCB 1016	AA	ug/L	0.5
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	PCB 1221	AA	ug/L	0.5
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	PCB 1232	AA	ug/L	0.5
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	PCB 1242	AA	ug/L	0.5
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	PCB 1248	AA	ug/L	0.5
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	PCB 1254	AA	ug/L	0.5
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	PCB 1260	AA	ug/L	0.5
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	Surr: Decachlorobiphenyl	0.864	%	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$PEST	Surr: Tetrachloro-m-xylene	0.873	%	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624	Bromochloromethane	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624	Chloromethane	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624	Vinyl Chloride	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624	Bromomethane	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624	Chloroethane	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624	Trichlorofluoromethane	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624	Acrolein	AS	ug/L	100.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624	1,1-Dichloroethene	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624	Acrylonitrile	AS	ug/L	100.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624	Methylene Chloride	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624	Trans-1,2-Dichloroethene	AS	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		1,1-Dichloroethane	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		Chloroform	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		2-Bromo,1-Chloropropane	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		1,2-Dichloroethane	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		1,2-Dichloroethane-d4	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		1,1,1-Trichloroethane	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		Carbon Tetrachloride	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		Benzene	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		Trichloroethene	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		2-Chloroethylvinylether	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		1,2-Dichloropropane	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		Bromodichloromethane	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		cis-1,3-Dichloropropene	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		trans-1,3-Dichloropropene	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		1,1,2-Trichloroethane	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		Dibromochloromethane	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		Bromoform	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		1,4-Dichlorobutane	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		Tetrachloroethene	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		1,1,2,2-Tetrachloroethane	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		Toluene	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		Toluene-d8	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		Chlorobenzene	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		Ethylbenzene	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		Bromofluorobenzene	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		1,3-Dichlorobenzene	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		1,4-Dichlorobenzene	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		1,2-Dichlorobenzene	AS	ug/L	5.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		2-Propanone	AS	ug/L	60
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$624		2-Butanone	AS	ug/L	60
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		pyridine	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		n-nitrosodimethylamine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		2-Fluorophenol	5.5	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		aniline	0	ug/L	6.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Phenol-d6	14.0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Phenol	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		2-Chlorophenol	0	ug/L	6.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		n-decane	0	ug/L	6.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		o-cresol	0	ug/L	6.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		acetophenone	0	ug/L	6.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Hexachloroethane	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Nitrobenzene-d5	58.2	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		p-cresol	0	ug/L	6.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Nitrobenzene	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Isophorone	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Decafluorobiphenyl	36.1	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		2-Nitrophenol	0	ug/L	6.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Naphthalene	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		1-Fluoronaphthalene	48.0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		alpha terpineol	0	ug/L	6.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		2-Chloronaphthalene	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Acenaphthylene	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Acenaphthene	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		4-Nitrophenol	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Diethyl phthalate	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Fluorene	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		2,4,6-Tribromophenol	12.0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Pentachlorophenol	0	ug/L	6.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		n-octadecane	0	ug/L	6.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Phenanthrene	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Anthracene	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		carbazole	0	ug/L	6.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Fluoranthene	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Benzidine	0	ug/L	6.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Pyrene	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Chrysene	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Di-n-octyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Perylene-D12	50.0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Hexachloroethane	0	ug/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		2,3-Dichloroaniline	0	ug/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Diethylphthalate	0	ug/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Benzo[ghi]perylene	0	ug/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		2,5-Cyclohexadien-1-one, 3,5-dihydroxy T	3	ug/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		2-Hexene, 3,5,5-trimethyl- T	7	ug/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		3-Hexene, 2,3-dimethyl- T	3	ug/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	9	ug/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Cyclohexane, 1-methyl-4-(1-methylethyl) T	2	ug/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Pentane, 2,3,4-trimethyl- T	5	ug/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Decane, 3,3,4-trimethyl- T	21	ug/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		1-Hexene, 4,5-dimethyl- T	5	ug/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Hexane, 3,3,4-trimethyl- T	3	ug/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Tris(3-chloropropyl) phosphate T	4	ug/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		Cholesterol T	4	ug/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		17-(1,5-Dimethylhexyl)-10,13-dimethyl- T	9	ug/L	
AC07625	LM77	Little Miami Watershed	77	9/26/2012	13:15	\$625		TOTAL AMOUNT	549	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30		MF_CF	Fecal Coliform, Membrane Filter	4200	CFU/100mL	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30		E-COLI	E.coli (Colilert)	2420	MPN	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30		TDS	Total Dissolved Solids	500	mg/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30		BOD	Biochemical Oxygen Demand	2	mg/L	2



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	SO4	Sulfate	AA	mg/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	CL	Chloride	130	mg/L	2.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	TSS	Tot. Suspended Solids	54	mg/L	2
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	HARD	Hardness as CaCO3	336	mg/l	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	COD	COD	5	mg/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	781	uS/cm	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	TEMP_FLD	Temperature (Field) Celsius	17.51	Deg C	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	PH_FLD	pH (Field)	8.36	S.U.	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	DO_FLD	Dissolved Oxygen (field) mg/L	11.20	mg/l	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	911	uS/cm	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$ICP	Antimony	0.00	mg/L	0.006
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$ICP	Arsenic	0.0207	mg/L	0.012
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$ICP	Barium	0.0592	mg/L	0.003
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$ICP	Calcium	101	mg/L	0.066
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$ICP	Chromium	0.00	mg/L	0.006
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$ICP	Copper	0.00834	mg/L	0.006
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$ICP	Iron	0.122	mg/L	0.018
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$ICP	Lead	0.00	mg/L	0.006
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$ICP	Magnesium	24.5	mg/L	0.021
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$ICP	Manganese	0.0295	mg/L	0.009
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$ICP	Nickel	0.00381	mg/L	0.003
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$ICP	Selenium	0.0247	mg/L	0.009
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$ICP	Silver	0.00	mg/L	0.003
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$ICP	Strontium	0.330	mg/L	0.009
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$ICP	Thallium	0.0167	mg/L	0.012
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$ICP	Tin	0.00	mg/L	0.006
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$ICP	Zinc	0.0146	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	PB_FU	Lead by Furnace	0.60	ug/L	1.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	AS_FU	Arsenic by Furnace	8.90	ug/L	1.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	CU_FU	Copper by Furnace	5.4	ug/L	1
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	NH3	Ammonia as N	0	mg/L	0.5
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	NO3NO2	Nitrate + Nitrite	0.705	mg/L	0.5
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	TKN	Total Kjeldahl Nitrogen	0.6018	mg/L	0.5
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	NO2	Nitrite as N	0.0160	mg/l	0.005
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	NO3	Nitrate as N (calculated)	0.6890	mg/l	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	Aldrin	AA	ug/L	0.02
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	Chlordane	AA	ug/L	0.10
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	Endrin	AA	ug/L	0.02
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	PCB 1242	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	Surr: Decachlorobiphenyl	0.914	%	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$PEST	Surr: Tetrachloro-m-xylene	0.866	%	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	Chloromethane	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	Bromomethane	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	Chloroethane	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	Acrolein	0	ug/L	100.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	Acrylonitrile	0	ug/L	100.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	Methylene Chloride	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	Chloroform	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	1,2-Dichloroethane-d4	45.6	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	Benzene	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	Trichloroethene	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	Bromodichloromethane	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	Dibromochloromethane	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624	Bromoform	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624		Toluene	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624		Toluene-d8	56.7	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624		Chlorobenzene	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624		Ethylbenzene	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624		Bromofluorobenzene	85.6	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624		2-Propanone	0	ug/L	60
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624		2-Butanone	0	ug/L	60
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624		Tetrahydrofuran	0	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$624		TOTAL AMOUNT	338	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		pyridine	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		2-Fluorophenol	28.8	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		aniline	0	ug/L	6.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Phenol-d6	19.8	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Phenol	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		n-decane	0	ug/L	6.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		o-cresol	0	ug/L	6.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		acetophenone	0	ug/L	6.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Hexachloroethane	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Nitrobenzene-d5	53.9	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		p-cresol	0	ug/L	6.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Nitrobenzene	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Isophorone	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Decafluorobiphenyl	34.3	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Naphthalene	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		1-Fluoronaphthalene	44.8	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		alpha terpineol	0	ug/L	6.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Acenaphthylene	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Acenaphthene	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		4-Nitrophenol	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Diethyl phthalate	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Fluorene	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		2,4,6-Tribromophenol	65.2	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Pentachlorophenol	0	ug/L	6.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		n-octadecane	0	ug/L	6.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Phenanthrene	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Anthracene	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		carbazole	0	ug/L	6.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Fluoranthene	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Benzidine	0	ug/L	6.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Pyrene	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Chrysene	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Hexachloroethane	0	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Diethylphthalate	0	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		6,6-Dimethyl-cyclohex-2-en-1-ol T	2	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		2-Hexene, 2,5,5-trimethyl- T	6	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		2-Hexene, 3,5,5-trimethyl- T	2	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		1-Silacyclo-3-pentene T	2	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		3-Ethyl-3-hexene T	3	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	8	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		2-Pentene, 3,4,4-trimethyl- T	2	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		2,4,4-Trimethyl-1-hexene T	3	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Pentane, 2,3,4-trimethyl- T	19	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Octane, 3-methyl-6-methylene- T	5	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Pentane, 2,3,4-trimethyl- T2	3	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		Tris(3-chloropropyl) phosphate T	5	ug/L	
AC07626	LM79	Little Miami Watershed	79	9/26/2012	13:30	\$625		TOTAL AMOUNT	605	ug/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35		MF_CF	Fecal Coliform, Membrane Filter	480	CFU/100mL	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35		E-COLI	E.coli (Colilert)	687	MPN	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35		TDS	Total Dissolved Solids	450	mg/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35		SO4	Sulfate	46.2	mg/L	25.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35		CL	Chloride	94.0	mg/L	1.00
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35		TSS	Tot. Suspended Solids	20	mg/L	2
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35		SSC	Suspended Sediment Concentration	16.8	mg/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35		HARD	Hardness as CaCO3	308	mg/l	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35		COD	COD	33	mg/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	643	uS/cm	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35		TEMP_FLD	Temperature (Field) Celsius	18.40	Deg C	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35		PH_FLD	pH (Field)	7.83	S.U.	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35		DO_FLD	Dissolved Oxygen (field) mg/L	9.23	mg/l	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35		CONDUCTIVITY	Specific Conductivity (uS/cm)	736	uS/cm	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35		\$ICP	Aluminum	0.00	mg/L	0.348
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35		\$ICP	Antimony	0.00	mg/L	0.006
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35		\$ICP	Arsenic	0.00	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$ICP	Barium	0.0592	mg/L	0.003
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$ICP	Beryllium	0.00	mg/L	0.009
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$ICP	Cadmium	0.00	mg/L	0.012
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$ICP	Calcium	70.8	mg/L	0.066
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$ICP	Chromium	0.00	mg/L	0.006
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$ICP	Cobalt	0.00	mg/L	0.006
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$ICP	Copper	0.00767	mg/L	0.006
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$ICP	Iron	0.576	mg/L	0.018
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$ICP	Lead	0.00	mg/L	0.006
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$ICP	Magnesium	23.2	mg/L	0.021
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$ICP	Manganese	0.0611	mg/L	0.009
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$ICP	Nickel	0.00472	mg/L	0.003
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$ICP	Selenium	0.0168	mg/L	0.009
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$ICP	Silver	0.00	mg/L	0.003
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$ICP	Strontium	0.288	mg/L	0.009
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$ICP	Thallium	0.00	mg/L	0.012
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$ICP	Tin	0.00	mg/L	0.006
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$ICP	Vanadium	0.00	mg/L	0.018
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$ICP	Zinc	0.0116	mg/L	0.006
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	PB_FU	Lead by Furnace	0.62	ug/L	1.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	AS_FU	Arsenic by Furnace	1.50	ug/L	1.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	CU_FU	Copper by Furnace	3.2	ug/L	1
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	NH3	Ammonia as N	0	mg/L	0.5
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	NO3NO2	Nitrate + Nitrite	2.2039	mg/L	0.5
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	NO2	Nitrite as N	0.0100	mg/l	0.005
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	NO3	Nitrate as N (calculated)	2.1939	mg/l	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	CHLOROPHYLL	Chlorophyll	2.37	mg/m3	1.00
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	Aldrin	AA	ug/L	0.02
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	Beta-BHC	AA	ug/L	0.02



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	Chlordane	AA	ug/L	0.10
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	Dieldrin	AA	ug/L	0.02
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	Endrin	AA	ug/L	0.02
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	Heptachlor	AA	ug/L	0.02
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	Toxaphene	AA	ug/L	1.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	PCB 1016	AA	ug/L	0.5
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	PCB 1221	AA	ug/L	0.5
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	PCB 1232	AA	ug/L	0.5
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	PCB 1242	AA	ug/L	0.5
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	PCB 1248	AA	ug/L	0.5
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	PCB 1254	AA	ug/L	0.5
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	PCB 1260	AA	ug/L	0.5
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	Surr: Decachlorobiphenyl	0.812	%	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$PEST	Surr: Tetrachloro-m-xylene	1.04	%	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624	Chloromethane	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624	Vinyl Chloride	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624	Bromomethane	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624	Chloroethane	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624	Acrolein	0	ug/L	100.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624	Acrylonitrile	0	ug/L	100.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		Methylene Chloride	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		Chloroform	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		1,2-Dichloroethane-d4	46.5	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		Benzene	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		Trichloroethene	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		Bromodichloromethane	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		Dibromochloromethane	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		Bromoform	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		Tetrachloroethene	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		Toluene	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		Toluene-d8	56.2	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		Chlorobenzene	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		Ethylbenzene	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		Bromofluorobenzene	81.0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		2-Propanone	0	ug/L	60
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		2-Butanone	0	ug/L	60
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		Tetrahydrofuran	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		2-chloroethoxy ethene	0	ug/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$624		TOTAL AMOUNT	334	ug/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		pyridine	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		2-Fluorophenol	50.9	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		aniline	0	ug/L	6.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Phenol-d6	33.2	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Phenol	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Bis(2-Chloroethyl)ether	4.9	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		2-Chlorophenol	0	ug/L	6.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		n-decane	0	ug/L	6.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		o-cresol	0	ug/L	6.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		acetophenone	0	ug/L	6.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Hexachloroethane	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Nitrobenzene-d5	85.8	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		p-cresol	0	ug/L	6.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Nitrobenzene	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Isophorone	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Decafluorobiphenyl	48.9	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		2-Nitrophenol	0	ug/L	6.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Naphthalene	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		1-Fluoronaphthalene	72.7	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		alpha terpineol	0	ug/L	6.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Acenaphthylene	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Acenaphthene	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		4-Nitrophenol	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Diethyl phthalate	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Fluorene	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		2,4,6-Tribromophenol	89.6	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Pentachlorophenol	0	ug/L	6.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		n-octadecane	0	ug/L	6.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Phenanthrene	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Anthracene	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		carbazole	0	ug/L	6.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Fluoranthene	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Benzidine	0	ug/L	6.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Pyrene	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Butyl benzyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Chrysene	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Perylene-D12	50.0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Hexachloroethane	0	ug/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		2,3-Dichloroaniline	0	ug/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Diethylphthalate	0	ug/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Benzo[ghi]perylene	0	ug/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Hexane, 1-(hexyloxy)-4-methyl- T	4	ug/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		2-Hexene, 2,5,5-trimethyl- T	11	ug/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		2-Hexene, 3,5,5-trimethyl- T	3	ug/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		1-Pentene, 3-ethyl-3-methyl- T	3	ug/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		2,4,6-Trimethyl-3-heptene T	5	ug/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	14	ug/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Cyclohexane, 1-isopropyl-3-methyl-, (E T	4	ug/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Heptane, 3,3,5-trimethyl- T	5	ug/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Pentane, 2,3,4-trimethyl- T	33	ug/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		1-Hexene, 4,5-dimethyl- T	9	ug/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Pentane, 2,3,4-trimethyl- T2	5	ug/L	
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625		Aniline T2	4	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07674	LM15	Little Miami Watershed	15	9/27/2012	10:35	\$625	TOTAL AMOUNT	789	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	5800	CFU/100mL	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	E-COLI	E.coli (Colilert)	2420	MPN	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	TDS	Total Dissolved Solids	420	mg/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	SO4	Sulfate	42.5	mg/L	12.5
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	CL	Chloride	84.4	mg/L	1.00
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	TSS	Tot. Suspended Solids	20	mg/L	2
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	SSC	Suspended Sediment Concentration	19.4	mg/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	HARD	Hardness as CaCO3	302	mg/l	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	COD	COD	40	mg/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	596	uS/cm	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	18.60	Deg C	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	PH_FLD	pH (Field)	7.80	S.U.	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	7.76	mg/l	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	579	uS/cm	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$ICP	Aluminum	0.414	mg/L	0.348
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$ICP	Antimony	0.00	mg/L	0.006
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$ICP	Barium	0.0552	mg/L	0.003
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$ICP	Calcium	65.6	mg/L	0.066
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$ICP	Chromium	0.00	mg/L	0.006
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$ICP	Copper	0.00913	mg/L	0.006
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$ICP	Iron	0.759	mg/L	0.018
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$ICP	Lead	0.00	mg/L	0.006
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$ICP	Magnesium	20.5	mg/L	0.021
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$ICP	Manganese	0.0767	mg/L	0.009
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$ICP	Nickel	0.00533	mg/L	0.003
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$ICP	Selenium	0.0217	mg/L	0.009
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$ICP	Silver	0.00	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$ICP	Strontium	0.258	mg/L	0.009
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$ICP	Thallium	0.00	mg/L	0.012
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$ICP	Tin	0.00	mg/L	0.006
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$ICP	Zinc	0.0172	mg/L	0.006
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	PB_FU	Lead by Furnace	1.44	ug/L	1.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	AS_FU	Arsenic by Furnace	3.10	ug/L	1.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	CU_FU	Copper by Furnace	4.2	ug/L	1
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	NO3NO2	Nitrate + Nitrite	1.87	mg/L	0.5
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	TKN	Total Kjeldahl Nitrogen	0.6808	mg/L	0.5
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	NO2	Nitrite as N	0.0219	mg/l	0.005
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	NO3	Nitrate as N (calculated)	1.8481	mg/l	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	CHLOROPHYLL	Chlorophyll	4.27	mg/m3	1.00
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	Aldrin	AA	ug/L	0.02
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	Chlordane	AA	ug/L	0.10
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	Endrin	AA	ug/L	0.02
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	Toxaphene	AA	ug/L	1.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	Surr: Decachlorobiphenyl	0.801	%	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$PEST	Surr: Tetrachloro-m-xylene	0.972	%	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624	Chloromethane	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624	Bromomethane	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624	Chloroethane	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624	Acrolein	0	ug/L	100.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624	Acrylonitrile	0	ug/L	100.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624	Methylene Chloride	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624	Chloroform	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624	1,2-Dichloroethane-d4	45.6	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624	Benzene	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624	Trichloroethene	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624	Bromodichloromethane	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624		Bromoform	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624		Toluene	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624		Toluene-d8	58.9	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624		Chlorobenzene	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624		Ethylbenzene	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624		Bromofluorobenzene	86.2	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624		2-Propanone	0	ug/L	60
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624		2-Butanone	0	ug/L	60
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624		Tetrahydrofuran	0	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624		2-chloroethoxy ethene	0	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$624		TOTAL AMOUNT	341	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		pyridine	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		2-Fluorophenol	31.2	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		aniline	16.2	ug/L	6.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Phenol-d6	22.3	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Phenol	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		2-Chlorophenol	0	ug/L	6.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		n-decane	0	ug/L	6.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		o-cresol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		acetophenone	0	ug/L	6.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Hexachloroethane	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Nitrobenzene-d5	59.0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		p-cresol	0	ug/L	6.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Nitrobenzene	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Isophorone	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Decafluorobiphenyl	43.0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		2-Nitrophenol	0	ug/L	6.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Naphthalene	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		1-Fluoronaphthalene	52.8	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		alpha terpineol	0	ug/L	6.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Acenaphthylene	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Acenaphthene	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		4-Nitrophenol	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Diethyl phthalate	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Fluorene	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		2,4,6-Tribromophenol	71.0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Pentachlorophenol	0	ug/L	6.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		n-octadecane	0	ug/L	6.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Phenanthrene	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Anthracene	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		carbazole	0	ug/L	6.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Fluoranthene	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Benzidine	0	ug/L	6.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Pyrene	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Chrysene	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Perylene-D12	50.0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		Hexachloroethane	0	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625		2,3-Dichloroaniline	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625	Diethylphthalate	0	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625	Benzo[ghi]perylene	0	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625	Hexane, 1-(hexyloxy)-4-methyl- T	2	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625	2-Hexene, 2,5,5-trimethyl- T	7	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625	3-Ethyl-3-hexene T	3	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	8	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625	N,N'-Hexamethylenebisacetamide T	2	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625	Pentane, 1,1'-oxybis- T	4	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625	Pentane, 2,3,4-trimethyl- T	18	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625	1-Hexene, 4,5-dimethyl- T	5	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625	Hexane, 3,3,4-trimethyl- T	3	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625	Benzene, isocyanato- T	4	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625	3-Pentenamide, 4-methyl-N-phenyl- T	3	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625	7-Amino-3-phenylcoumarin T	3	ug/L	
AC07675	LM16	Little Miami Watershed	16 (3261-02)	9/27/2012	11:00	\$625	TOTAL AMOUNT	660	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	MF_CF	Fecal Coliform, Membrane Filter	5200	CFU/100mL	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	E-COLI	E.coli (Colilert)	2420	MPN	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	TDS	Total Dissolved Solids	430	mg/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	SO4	Sulfate	46.2	mg/L	12.5
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	CL	Chloride	87.9	mg/L	1.00
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	TSS	Tot. Suspended Solids	20	mg/L	2
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	SSC	Suspended Sediment Concentration	14.6	mg/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	HARD	Hardness as CaCO3	312	mg/l	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	COD	COD	11	mg/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	617	uS/cm	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	TEMP_FLD	Temperature (Field) Celsius	18.26	Deg C	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	PH_FLD	pH (Field)	7.68	S.U.	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	DO_FLD	Dissolved Oxygen (field) mg/L	7.25	mg/l	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	708	uS/cm	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$ICP	Antimony	0.00	mg/L	0.006
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$ICP	Barium	0.0588	mg/L	0.003
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$ICP	Calcium	69.7	mg/L	0.066
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$ICP	Chromium	0.00	mg/L	0.006
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$ICP	Copper	0.00788	mg/L	0.006
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$ICP	Iron	0.352	mg/L	0.018
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$ICP	Lead	0.00	mg/L	0.006
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$ICP	Magnesium	21.6	mg/L	0.021
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$ICP	Manganese	0.0509	mg/L	0.009
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$ICP	Nickel	0.00455	mg/L	0.003
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$ICP	Selenium	0.0193	mg/L	0.009
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$ICP	Silver	0.00	mg/L	0.003
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$ICP	Strontium	0.278	mg/L	0.009
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$ICP	Thallium	0.0166	mg/L	0.012
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$ICP	Tin	0.00	mg/L	0.006
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$ICP	Zinc	0.0117	mg/L	0.006
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	PB_FU	Lead by Furnace	0.54	ug/L	1.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	AS_FU	Arsenic by Furnace	2.50	ug/L	1.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	CU_FU	Copper by Furnace	4.2	ug/L	1
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	NO3NO2	Nitrate + Nitrite	1.79	mg/L	0.5
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	NO2	Nitrite as N	0.0200	mg/l	0.005

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	NO3	Nitrate as N (calculated)	1.7700	mg/l	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	Aldrin	AA	ug/L	0.02
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	Chlordane	AA	ug/L	0.10
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	Endrin	AA	ug/L	0.02
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	Surr: Decachlorobiphenyl	0.879	%	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$PEST	Surr: Tetrachloro-m-xylene	0.984	%	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624	Chloromethane	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624	Bromomethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		Chloroethane	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		Acrolein	0	ug/L	100.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		Acrylonitrile	0	ug/L	100.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		Methylene Chloride	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		Chloroform	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		1,2-Dichloroethane-d4	44.4	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		Benzene	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		Trichloroethene	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		Bromoform	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		Toluene	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		Toluene-d8	53.1	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		Chlorobenzene	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		Ethylbenzene	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		Bromofluorobenzene	80.7	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		2-Propanone	0	ug/L	60
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		2-Butanone	0	ug/L	60
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		Tetrahydrofuran	0	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$624		TOTAL AMOUNT	328	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		pyridine	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		2-Fluorophenol	34.1	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		aniline	0	ug/L	6.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Phenol-d6	24.3	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Phenol	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		n-decane	0	ug/L	6.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		o-cresol	0	ug/L	6.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		acetophenone	0	ug/L	6.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Hexachloroethane	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Nitrobenzene-d5	63.3	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		p-cresol	0	ug/L	6.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Nitrobenzene	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Isophorone	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Decafluorobiphenyl	43.2	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	Naphthalene	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	1-Fluoronaphthalene	53.6	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	alpha terpineol	0	ug/L	6.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	Acenaphthylene	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	Acenaphthene	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	4-Nitrophenol	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	Diethyl phthalate	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	Fluorene	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	2,4,6-Tribromophenol	62.2	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	Pentachlorophenol	0	ug/L	6.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	n-octadecane	0	ug/L	6.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	Phenanthrene	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	Anthracene	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	carbazole	0	ug/L	6.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625	Di-n-butyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Fluoranthene	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Benzidine	0	ug/L	6.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Pyrene	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Chrysene	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Hexachloroethane	0	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Diethylphthalate	0	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		2-Nonanone T	1	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Hexane, 1-(hexyloxy)-4-methyl- T	3	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		2-Hexene, 2,5,5-trimethyl- T	8	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		2-Hexene, 3,5,5-trimethyl- T	2	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		5-Methyl-1-heptanol T	2	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Hexane, 3-methyl-4-methylene- T	3	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	7	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Cyclohexane, 1-methyl-2-propyl- T	2	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Pentane, 2,3,4-trimethyl- T	3	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Pentane, 2,3,4-trimethyl- T2	18	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Phosphonous difluoride,compd.with trib T	5	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		Pentane, 2,3,4-trimethyl- T3	3	ug/L	
AC07676	LM17	Little Miami Watershed	17 (3261-01)	9/27/2012	11:30	\$625		TOTAL AMOUNT	636	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		MF_CF	Fecal Coliform, Membrane Filter	2600	CFU/100mL	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		E-COLI	E.coli (Colilert)	2420	MPN	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		TDS	Total Dissolved Solids	480	mg/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		SO4	Sulfate	61.0	mg/L	1.00
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		CL	Chloride	61.2	mg/L	1.00
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		TSS	Tot. Suspended Solids	30	mg/L	2
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		SSC	Suspended Sediment Concentration	13.7	mg/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		HARD	Hardness as CaCO3	198	mg/l	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		COD	COD	44	mg/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	435	uS/cm	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		TEMP_FLD	Temperature (Field) Celsius	17.76	Deg C	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		PH_FLD	pH (Field)	7.88	S.U.	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		DO_FLD	Dissolved Oxygen (field) mg/L	8.83	mg/l	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		CONDUCTIVITY	Specific Conductivity (uS/cm)	505	uS/cm	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		\$ICP	Aluminum	0.00	mg/L	0.348
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		\$ICP	Antimony	0.00	mg/L	0.006
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		\$ICP	Arsenic	0.00	mg/L	0.012
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		\$ICP	Barium	0.0275	mg/L	0.003
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		\$ICP	Beryllium	0.00	mg/L	0.009
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		\$ICP	Cadmium	0.00	mg/L	0.012
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		\$ICP	Calcium	47.9	mg/L	0.066
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		\$ICP	Chromium	0.00	mg/L	0.006
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		\$ICP	Cobalt	0.00	mg/L	0.006
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		\$ICP	Copper	0.0111	mg/L	0.006
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		\$ICP	Iron	0.510	mg/L	0.018
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10		\$ICP	Lead	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$ICP	Magnesium	9.34	mg/L	0.021
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$ICP	Manganese	0.0184	mg/L	0.009
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$ICP	Nickel	0.00479	mg/L	0.003
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$ICP	Selenium	0.0191	mg/L	0.009
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$ICP	Silver	0.00	mg/L	0.003
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$ICP	Strontium	0.193	mg/L	0.009
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$ICP	Thallium	0.00	mg/L	0.012
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$ICP	Tin	0.00	mg/L	0.006
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$ICP	Vanadium	0.00	mg/L	0.018
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$ICP	Zinc	0.0116	mg/L	0.006
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	PB_FU	Lead by Furnace	0.88	ug/L	1.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	AS_FU	Arsenic by Furnace	1.48	ug/L	1.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	CU_FU	Copper by Furnace	8.4	ug/L	1
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	NH3	Ammonia as N	0	mg/L	0.5
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	NO3NO2	Nitrate + Nitrite	2.22	mg/L	0.5
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	TKN	Total Kjeldahl Nitrogen	1.200	mg/L	0.5
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	NO2	Nitrite as N	0.0160	mg/l	0.005
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	NO3	Nitrate as N (calculated)	2.2040	mg/l	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	Aldrin	AA	ug/L	0.02
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	Chlordane	AA	ug/L	0.10
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	Dieldrin	AA	ug/L	0.02
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	Endosulfan II	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	Endrin	AA	ug/L	0.02
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	Heptachlor	AA	ug/L	0.02
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	Toxaphene	AA	ug/L	1.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	PCB 1016	AA	ug/L	0.5
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	PCB 1221	AA	ug/L	0.5
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	PCB 1232	AA	ug/L	0.5
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	PCB 1242	AA	ug/L	0.5
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	PCB 1248	AA	ug/L	0.5
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	PCB 1254	AA	ug/L	0.5
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	PCB 1260	AA	ug/L	0.5
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	Surr: Decachlorobiphenyl	0.760	%	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$PEST	Surr: Tetrachloro-m-xylene	0.898	%	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624	Chloromethane	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624	Vinyl Chloride	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624	Bromomethane	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624	Chloroethane	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624	Acrolein	0	ug/L	100.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624	Acrylonitrile	0	ug/L	100.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624	Methylene Chloride	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624	Chloroform	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624	1,2-Dichloroethane-d4	46.8	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624	Carbon Tetrachloride	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		Benzene	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		Trichloroethene	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		Bromodichloromethane	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		Dibromochloromethane	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		Bromoform	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		Tetrachloroethene	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		Toluene	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		Toluene-d8	53.3	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		Chlorobenzene	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		Ethylbenzene	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		Bromofluorobenzene	82.2	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		2-Propanone	0	ug/L	60
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		2-Butanone	0	ug/L	60
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		Tetrahydrofuran	0	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		2-chloroethoxy ethene	0	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$624		TOTAL AMOUNT	332	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		pyridine	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		2-Fluorophenol	30.6	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		aniline	0	ug/L	6.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Phenol-d6	20.4	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Phenol	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		2-Chlorophenol	0	ug/L	6.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		n-decane	0	ug/L	6.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		o-cresol	0	ug/L	6.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		acetophenone	0	ug/L	6.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Hexachloroethane	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Nitrobenzene-d5	55.3	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		p-cresol	0	ug/L	6.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Nitrobenzene	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Isophorone	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Decafluorobiphenyl	44.1	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		2-Nitrophenol	0	ug/L	6.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Naphthalene	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		1-Fluoronaphthalene	50.2	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		alpha terpineol	0	ug/L	6.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Acenaphthylene	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Acenaphthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		4-Nitrophenol	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Diethyl phthalate	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Fluorene	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		2,4,6-Tribromophenol	57.2	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Pentachlorophenol	0	ug/L	6.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		n-octadecane	0	ug/L	6.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Phenanthrene	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Anthracene	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		carbazole	0	ug/L	6.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Fluoranthene	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Benzidine	0	ug/L	6.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Pyrene	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Chrysene	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Perylene-D12	50.0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Benzo(a)pyrene	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Hexachloroethane	0	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		2,3-Dichloroaniline	0	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Diethylphthalate	0	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Benzo[ghi]perylene	0	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		2,5-Cyclohexadien-1-one, 3,5-dihydroxy T	2	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		2-Hexene, 3,5,5-trimethyl- T	6	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Hexane, 3-methyl-4-methylene- T	2	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		2-Butenal, 3-methyl- T	5	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		N,N'-Hexamethylenebisacetamide T	2	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Pentane, 2,3,4-trimethyl- T	3	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Decane, 3,3,4-trimethyl- T	13	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Pentane, 3-ethyl- T	5	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Pentane, 2,3,4-trimethyl- T2	2	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Benzonitrile, 4-hydroxy- T	2	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Aniline T2	4	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		Tetracosane T	2	ug/L	
AC07677	LM82	Little Miami Watershed	82	9/27/2012	12:10	\$625		TOTAL AMOUNT	609	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30		MF_CF	Fecal Coliform, Membrane Filter	6200	CFU/100mL	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30		E-COLI	E.coli (Colilert)	2420	MPN	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30		TDS	Total Dissolved Solids	420	mg/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30		SO4	Sulfate	33.4	mg/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30		CL	Chloride	49.4	mg/L	1.00
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30		TSS	Tot. Suspended Solids	10	mg/L	2
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30		SSC	Suspended Sediment Concentration	AA	mg/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	HARD	Hardness as CaCO3	202	mg/l	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	COD	COD	51	mg/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	352	uS/cm	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	TEMP_FLD	Temperature (Field) Celsius	19.57	Deg C	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	PH_FLD	pH (Field)	7.26	S.U.	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	DO_FLD	Dissolved Oxygen (field) mg/L	7.07	mg/l	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	393	uS/cm	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$ICP	Antimony	0.00648	mg/L	0.006
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$ICP	Barium	0.0279	mg/L	0.003
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$ICP	Calcium	34.7	mg/L	0.066
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$ICP	Chromium	0.00	mg/L	0.006
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$ICP	Copper	0.0101	mg/L	0.006
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$ICP	Iron	0.205	mg/L	0.018
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$ICP	Lead	0.00	mg/L	0.006
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$ICP	Magnesium	6.22	mg/L	0.021
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$ICP	Manganese	0.0645	mg/L	0.009
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$ICP	Nickel	0.00395	mg/L	0.003
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$ICP	Selenium	0.0193	mg/L	0.009
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$ICP	Silver	0.00	mg/L	0.003
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$ICP	Strontium	0.139	mg/L	0.009
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$ICP	Thallium	0.00	mg/L	0.012
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$ICP	Tin	0.00	mg/L	0.006
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$ICP	Zinc	0.0333	mg/L	0.006
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	PB_FU	Lead by Furnace	0.88	ug/L	1.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	AS_FU	Arsenic by Furnace	1.12	ug/L	1.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	CU_FU	Copper by Furnace	5.8	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	NH3	Ammonia as N	0	mg/L	0.5
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	NO3NO2	Nitrate + Nitrite	0.528	mg/L	0.5
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	TKN	Total Kjeldahl Nitrogen	0.6595	mg/L	0.5
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	NO2	Nitrite as N	0.0357	mg/l	0.005
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	NO3	Nitrate as N (calculated)	0.4923	mg/l	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	Aldrin	AA	ug/L	0.02
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	Chlordane	AA	ug/L	0.10
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	Endrin	AA	ug/L	0.02
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	Surr: Decachlorobiphenyl	0.791	%	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$PEST	Surr: Tetrachloro-m-xylene	0.933	%	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	Chloromethane	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	Bromomethane	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	Chloroethane	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	Acrolein	0	ug/L	100.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	Acrylonitrile	0	ug/L	100.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	Methylene Chloride	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	Chloroform	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	1,2-Dichloroethane-d4	47.4	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	Benzene	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	Trichloroethene	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	Bromodichloromethane	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	Dibromochloromethane	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	Bromoform	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	Tetrachloroethene	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624	Toluene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624		Toluene-d8	54.6	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624		Chlorobenzene	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624		Ethylbenzene	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624		Bromofluorobenzene	83.1	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624		2-Propanone	0	ug/L	60
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624		2-Butanone	0	ug/L	60
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624		Tetrahydrofuran	0	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$624		TOTAL AMOUNT	335	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		pyridine	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		2-Fluorophenol	35.6	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		aniline	0	ug/L	6.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Phenol-d6	23.7	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Phenol	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		n-decane	0	ug/L	6.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		o-cresol	0	ug/L	6.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		acetophenone	0	ug/L	6.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Hexachloroethane	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Nitrobenzene-d5	63.7	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		p-cresol	0	ug/L	6.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Nitrobenzene	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Isophorone	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Decafluorobiphenyl	52.5	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	2-Nitrophenol	0	ug/L	6.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	Naphthalene	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	1-Fluoronaphthalene	54.5	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	alpha terpineol	0	ug/L	6.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	Acenaphthylene	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	Acenaphthene	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	4-Nitrophenol	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	Diethyl phthalate	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	Fluorene	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	2,4,6-Tribromophenol	69.3	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625	Pentachlorophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		n-octadecane	0	ug/L	6.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Phenanthrene	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Anthracene	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		carbazole	0	ug/L	6.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Fluoranthene	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Benzidine	0	ug/L	6.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Pyrene	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Chrysene	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Hexachloroethane	0	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Diethylphthalate	0	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Hexane, 1-(hexyloxy)-4-methyl- T	1	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		2-Hexene, 2,5,5-trimethyl- T	7	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		2-Hexene, 3,5,5-trimethyl- T	2	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	6	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		2-Butenal, 3-methyl- T	2	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Decane, 3,3,6-trimethyl- T	2	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Pyrrolidine T	8	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		1-Hexene, 4,5-dimethyl- T	4	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Pentane, 2,3,4-trimethyl- T	2	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		Ethanol, 2-[2-(2-butoxyethoxy)ethoxy]- T	3	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		3,6,9,12,15-Pentaoxonadecan-1-ol T	2	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		1-Nonadecene T	2	ug/L	
AC07678	LM80	Little Miami Watershed	80	9/27/2012	12:30	\$625		TOTAL AMOUNT	639	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00		MF_CF	Fecal Coliform, Membrane Filter	420	CFU/100mL	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00		E-COLI	E.coli (Colilert)	687	MPN	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00		TDS	Total Dissolved Solids	400	mg/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00		SO4	Sulfate	36.8	mg/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00		CL	Chloride	44.4	mg/L	1.00
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00		TSS	Tot. Suspended Solids	8	mg/L	2
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00		SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00		HARD	Hardness as CaCO3	304	mg/l	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00		COD	COD	9	mg/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	601	uS/cm	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00		TEMP_FLD	Temperature (Field) Celsius	15.12	Deg C	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00		PH_FLD	pH (Field)	7.05	S.U.	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00		DO_FLD	Dissolved Oxygen (field) mg/L	3.38	mg/l	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00		CONDUCTIVITY	Specific Conductivity (uS/cm)	742	uS/cm	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00		\$ICP	Aluminum	0.00	mg/L	0.348
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00		\$ICP	Antimony	0.00	mg/L	0.006
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00		\$ICP	Arsenic	0.00	mg/L	0.012
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00		\$ICP	Barium	0.0639	mg/L	0.003
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00		\$ICP	Beryllium	0.00	mg/L	0.009
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00		\$ICP	Cadmium	0.00	mg/L	0.012
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00		\$ICP	Calcium	113	mg/L	0.066



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$ICP	Chromium	0.00	mg/L	0.006
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$ICP	Copper	0.00	mg/L	0.006
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$ICP	Iron	0.0934	mg/L	0.018
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$ICP	Lead	0.00	mg/L	0.006
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$ICP	Magnesium	20.6	mg/L	0.021
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$ICP	Manganese	0.114	mg/L	0.009
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$ICP	Nickel	0.00408	mg/L	0.003
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$ICP	Selenium	0.0227	mg/L	0.009
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$ICP	Silver	0.00	mg/L	0.003
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$ICP	Strontium	0.246	mg/L	0.009
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$ICP	Thallium	0.00	mg/L	0.012
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$ICP	Tin	0.00	mg/L	0.006
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$ICP	Zinc	0.00	mg/L	0.006
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	PB_FU	Lead by Furnace	0.02	ug/L	1.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	AS_FU	Arsenic by Furnace	0.46	ug/L	1.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	CU_FU	Copper by Furnace	AA	ug/L	1
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	NH3	Ammonia as N	0	mg/L	0.5
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	NO2	Nitrite as N	0.0083	mg/l	0.005
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	Aldrin	AA	ug/L	0.02
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	Chlordane	AA	ug/L	0.10
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	4,4-DDD	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	Endrin	AA	ug/L	0.02
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	Toxaphene	AA	ug/L	1.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	Surr: Decachlorobiphenyl	0.793	%	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$PEST	Surr: Tetrachloro-m-xylene	0.852	%	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Chloromethane	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Bromomethane	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Chloroethane	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Acrolein	0	ug/L	100.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Acrylonitrile	0	ug/L	100.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Methylene Chloride	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Chloroform	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	1,2-Dichloroethane-d4	44.2	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Benzene	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Trichloroethene	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Bromodichloromethane	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Dibromochloromethane	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Bromoform	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Tetrachloroethene	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Toluene	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Toluene-d8	57.2	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Chlorobenzene	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Ethylbenzene	0	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Bromofluorobenzene	83.6	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	1,3-Dichlorobenzene	9.8	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	1,4-Dichlorobenzene	12.1	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	1,2-Dichlorobenzene	15.8	ug/L	5.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	2-Propanone	0	ug/L	60
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	2-Butanone	0	ug/L	60
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	Tetrahydrofuran	0	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	2-chloroethoxy ethene	0	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$624	TOTAL AMOUNT	373	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	pyridine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	2-Fluorophenol	35.9	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	aniline	0	ug/L	6.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Phenol-d6	23.6	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Phenol	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	2-Chlorophenol	0	ug/L	6.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	n-decane	0	ug/L	6.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	o-cresol	0	ug/L	6.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	acetophenone	0	ug/L	6.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Hexachloroethane	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Nitrobenzene-d5	71.6	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	p-cresol	0	ug/L	6.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Nitrobenzene	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Isophorone	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Decafluorobiphenyl	66.0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	2-Nitrophenol	0	ug/L	6.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Naphthalene	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	1-Fluoronaphthalene	67.8	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	alpha terpineol	0	ug/L	6.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Acenaphthylene	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Acenaphthene	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	4-Nitrophenol	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Diethyl phthalate	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Fluorene	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	2,4,6-Tribromophenol	67.7	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Pentachlorophenol	0	ug/L	6.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	n-octadecane	0	ug/L	6.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Phenanthrene	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Anthracene	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	carbazole	0	ug/L	6.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Fluoranthene	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Benzidine	0	ug/L	6.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Pyrene	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	Chrysene	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Perylene-D12	50.0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Hexachloroethane	0	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		2,3-Dichloroaniline	0	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Diethylphthalate	0	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Benzo[ghi]perylene	0	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Oxirane, 2-methyl-2-(1-methylethyl)- T	1	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		2-Hexene, 3,5,5-trimethyl- T	2	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		2-Hexene, 2,5,5-trimethyl- T	8	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		2-Hexene, 3,5,5-trimethyl- T2	2	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	3	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	2	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Ethane, 1,1,2,2-tetrachloro- T	2	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Pentane, 2,3,4-trimethyl- T	8	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Octane, 3-methyl-6-methylene- T	4	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Pentane, 2,3,4-trimethyl- T2	2	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Ethanol, 2,2'-oxybis- T	1	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		Cyclotetradecane T	1	ug/L	
AC07759	RF09	Little Miami Watershed	09	9/28/2012	09:00	\$625		TOTAL AMOUNT	669	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20		MF_CF	Fecal Coliform, Membrane Filter	370	CFU/100mL	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20		E-COLI	E.coli (Colilert)	291	MPN	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20		TDS	Total Dissolved Solids	330	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	SO4	Sulfate	46.2	mg/L	1.00
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	CL	Chloride	66.3	mg/L	1.00
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	TSS	Tot. Suspended Solids	16	mg/L	2
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	SSC	Suspended Sediment Concentration	13.2	mg/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	HARD	Hardness as CaCO3	274	mg/l	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	COD	COD	16	mg/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	524	uS/cm	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	TEMP_FLD	Temperature (Field) Celsius	16.49	Deg C	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	PH_FLD	pH (Field)	7.93	S.U.	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	DO_FLD	Dissolved Oxygen (field) mg/L	6.85	mg/l	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	625	uS/cm	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$ICP	Aluminum	0.00	mg/L	0.348
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$ICP	Antimony	0.00	mg/L	0.006
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$ICP	Arsenic	0.00	mg/L	0.012
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$ICP	Barium	0.0621	mg/L	0.003
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$ICP	Calcium	75.4	mg/L	0.066
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$ICP	Chromium	0.00	mg/L	0.006
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$ICP	Copper	0.00797	mg/L	0.006
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$ICP	Iron	0.426	mg/L	0.018
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$ICP	Lead	0.00	mg/L	0.006
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$ICP	Magnesium	19.2	mg/L	0.021
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$ICP	Manganese	0.124	mg/L	0.009
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$ICP	Nickel	0.00391	mg/L	0.003
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$ICP	Selenium	0.0165	mg/L	0.009
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$ICP	Silver	0.00	mg/L	0.003
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$ICP	Strontium	0.296	mg/L	0.009
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$ICP	Thallium	0.00	mg/L	0.012
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$ICP	Tin	0.00	mg/L	0.006
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$ICP	Vanadium	0.00	mg/L	0.018

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$ICP	Zinc	0.00782	mg/L	0.006
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	PB_FU	Lead by Furnace	0.73	ug/L	1.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	AS_FU	Arsenic by Furnace	1.05	ug/L	1.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	CU_FU	Copper by Furnace	2.5	ug/L	1
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	NH3	Ammonia as N	0	mg/L	0.5
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	NO2	Nitrite as N	0.0080	mg/l	0.005
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	Aldrin	AA	ug/L	0.02
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	Chlordane	AA	ug/L	0.10
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	Dieldrin	AA	ug/L	0.02
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	Endrin	AA	ug/L	0.02
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	Heptachlor	AA	ug/L	0.02
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	Toxaphene	AA	ug/L	1.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	PCB 1016	AA	ug/L	0.5
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	PCB 1221	AA	ug/L	0.5
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	PCB 1232	AA	ug/L	0.5



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	PCB 1242	AA	ug/L	0.5
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	PCB 1248	AA	ug/L	0.5
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	PCB 1254	AA	ug/L	0.5
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	PCB 1260	AA	ug/L	0.5
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	Surr: Decachlorobiphenyl	0.901	%	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$PEST	Surr: Tetrachloro-m-xylene	0.923	%	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Chloromethane	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Vinyl Chloride	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Bromomethane	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Chloroethane	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Acrolein	0	ug/L	100.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Acrylonitrile	0	ug/L	100.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Methylene Chloride	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Chloroform	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	1,2-Dichloroethane-d4	46.2	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Benzene	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Trichloroethene	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Bromodichloromethane	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Dibromochloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Bromoform	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Tetrachloroethene	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Toluene	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Toluene-d8	56.6	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Chlorobenzene	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Ethylbenzene	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Bromofluorobenzene	83.9	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	2-Propanone	0	ug/L	60
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	2-Butanone	0	ug/L	60
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	Tetrahydrofuran	0	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	2-chloroethoxy ethene	0	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$624	TOTAL AMOUNT	337	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	pyridine	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	2-Fluorophenol	45.2	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	aniline	0	ug/L	6.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Phenol-d6	29.9	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Phenol	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	2-Chlorophenol	0	ug/L	6.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	n-decane	0	ug/L	6.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	o-cresol	0	ug/L	6.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	acetophenone	0	ug/L	6.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Hexachloroethane	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Naphthalene-D8	50.0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Nitrobenzene-d5	79.2	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	p-cresol	0	ug/L	6.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Nitrobenzene	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Isophorone	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Decafluorobiphenyl	71.1	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	2-Nitrophenol	0	ug/L	6.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Naphthalene	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	1-Fluoronaphthalene	74.6	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	alpha terpineol	0	ug/L	6.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Acenaphthylene	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Acenaphthene	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	4-Nitrophenol	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Diethyl phthalate	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Fluorene	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	n-nitrosodiphenylamine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	2,4,6-Tribromophenol	79.8	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Pentachlorophenol	0	ug/L	6.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	n-octadecane	0	ug/L	6.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Phenanthrene	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Anthracene	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	carbazole	0	ug/L	6.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Fluoranthene	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Benzidine	0	ug/L	6.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Pyrene	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Chrysene	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Perylene-D12	50.0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Hexachloroethane	0	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	2,3-Dichloroaniline	0	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Diethylphthalate	0	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625	Benzo[k]fluoranthene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625		Benzo[ghi]perylene	0	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625		2-Hexanone, 4-hydroxy-3-propyl- T	2	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625		1-Isopropyl-2,2-dimethylpropylideneami T	2	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625		2-Hexene, 2,5,5-trimethyl- T	9	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625		2-Hexene, 3,5,5-trimethyl- T	2	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625		1-Silacyclo-3-pentene T	1	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	6	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625		2-Butenal, 3-methyl- T	2	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625		2,4,4-Trimethyl-1-hexene T	2	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625		Pentane, 2,3,4-trimethyl- T	10	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625		Isoamyl laurate T	5	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625		Pentane, 2,3,4-trimethyl- T2	2	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625		2-Propenoic acid, n-pentadecyl ester T	2	ug/L	
AC07760	RF08	Little Miami Watershed	08	9/28/2012	09:20	\$625		TOTAL AMOUNT	724	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50		MF_CF	Fecal Coliform, Membrane Filter	2300	CFU/100mL	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50		E-COLI	E.coli (Colilert)	2420	MPN	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50		TDS	Total Dissolved Solids	380	mg/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50		SO4	Sulfate	31.8	mg/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50		CL	Chloride	19.7	mg/L	1.00
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50		TSS	Tot. Suspended Solids	10	mg/L	2
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50		SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50		HARD	Hardness as CaCO3	316	mg/l	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50		COD	COD	7	mg/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	510	uS/cm	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50		TEMP_FLD	Temperature (Field) Celsius	15.37	Deg C	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50		PH_FLD	pH (Field)	7.57	S.U.	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50		DO_FLD	Dissolved Oxygen (field) mg/L	3.60	mg/l	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50		CONDUCTIVITY	Specific Conductivity (uS/cm)	625	uS/cm	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50		\$ICP	Aluminum	0.00	mg/L	0.348
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50		\$ICP	Antimony	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$ICP	Arsenic	0.00	mg/L	0.012
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$ICP	Barium	0.0911	mg/L	0.003
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$ICP	Calcium	92.1	mg/L	0.066
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$ICP	Chromium	0.00	mg/L	0.006
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$ICP	Copper	0.00649	mg/L	0.006
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$ICP	Iron	0.103	mg/L	0.018
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$ICP	Lead	0.00	mg/L	0.006
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$ICP	Magnesium	26.8	mg/L	0.021
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$ICP	Manganese	0.0416	mg/L	0.009
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$ICP	Nickel	0.00332	mg/L	0.003
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$ICP	Selenium	0.0255	mg/L	0.009
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$ICP	Silver	0.00	mg/L	0.003
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$ICP	Strontium	0.162	mg/L	0.009
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$ICP	Thallium	0.00	mg/L	0.012
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$ICP	Tin	0.00	mg/L	0.006
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$ICP	Zinc	0.00	mg/L	0.006
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	PB_FU	Lead by Furnace	0.21	ug/L	1.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	AS_FU	Arsenic by Furnace	0.33	ug/L	1.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	CU_FU	Copper by Furnace	AA	ug/L	1
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	NH3	Ammonia as N	0	mg/L	0.5
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	NO2	Nitrite as N	0.0075	mg/l	0.005
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	Aldrin	AA	ug/L	0.02
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	Alpha-BHC	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	Chlordane	AA	ug/L	0.10
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	Dieldrin	AA	ug/L	0.02
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	Endrin	AA	ug/L	0.02
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	Heptachlor	AA	ug/L	0.02
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	Toxaphene	AA	ug/L	1.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	PCB 1016	AA	ug/L	0.5
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	PCB 1221	AA	ug/L	0.5
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	PCB 1232	AA	ug/L	0.5
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	PCB 1242	AA	ug/L	0.5
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	PCB 1248	AA	ug/L	0.5
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	PCB 1254	AA	ug/L	0.5
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	PCB 1260	AA	ug/L	0.5
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	Surr: Decachlorobiphenyl	0.872	%	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$PEST	Surr: Tetrachloro-m-xylene	0.896	%	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Chloromethane	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Vinyl Chloride	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Bromomethane	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Chloroethane	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Acrolein	0	ug/L	100.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	1,1-Dichloroethene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Acrylonitrile	0	ug/L	100.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Methylene Chloride	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Chloroform	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	1,2-Dichloroethane-d4	44.4	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Benzene	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Trichloroethene	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Bromodichloromethane	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Dibromochloromethane	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Bromoform	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Tetrachloroethene	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Toluene	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Toluene-d8	57.2	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Chlorobenzene	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Ethylbenzene	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Bromofluorobenzene	86.0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	2-Propanone	0	ug/L	60
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	2-Butanone	0	ug/L	60



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	Tetrahydrofuran	0	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	2-chloroethoxy ethene	0	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$624	TOTAL AMOUNT	338	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	pyridine	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	2-Fluorophenol	31.4	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	aniline	0	ug/L	6.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Phenol-d6	21.0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Phenol	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	2-Chlorophenol	0	ug/L	6.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	n-decane	0	ug/L	6.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	o-cresol	0	ug/L	6.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	acetophenone	0	ug/L	6.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Hexachloroethane	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Nitrobenzene-d5	69.0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	p-cresol	0	ug/L	6.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Nitrobenzene	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Isophorone	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Decafluorobiphenyl	58.2	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	2-Nitrophenol	0	ug/L	6.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Naphthalene	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	1-Fluoronaphthalene	66.1	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	alpha terpineol	0	ug/L	6.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Hexachlorobutadiene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Acenaphthylene	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Acenaphthene	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	4-Nitrophenol	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Diethyl phthalate	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Fluorene	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	2,4,6-Tribromophenol	71.5	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Pentachlorophenol	0	ug/L	6.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	n-octadecane	0	ug/L	6.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Phenanthrene	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Anthracene	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	carbazole	0	ug/L	6.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Fluoranthene	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Benzidine	0	ug/L	6.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Pyrene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Chrysene	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Perylene-D12	50.0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Hexachloroethane	0	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	2,3-Dichloroaniline	0	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Diethylphthalate	0	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Benzo[ghi]perylene	0	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	1-Isopropyl-2,2-dimethylpropylideneami T	2	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	2-Hexene, 2,5,5-trimethyl- T	8	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	2-Hexene, 3,5,5-trimethyl- T	2	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	2	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	2-Butenal, 3-methyl- T	2	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	1,1-Dimethylpropyl 2-ethylhexanoate T	1	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Decane, 3,3,4-trimethyl- T	8	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Octane, 3-methyl-6-methylene- T	4	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Decane, 3,3,4-trimethyl- T2	2	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Tetradecanoic acid T	2	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	n-Hexadecanoic acid T	10	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	Octadecanoic acid T	2	ug/L	
AC07761	RF10	Little Miami Watershed	10	9/28/2012	09:50	\$625	TOTAL AMOUNT	662	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	430	CFU/100mL	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	E-COLI	E.coli (Colilert)	365	MPN	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	TDS	Total Dissolved Solids	280	mg/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	SO4	Sulfate	31.5	mg/L	12.5
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	CL	Chloride	76.4	mg/L	1.00
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	TSS	Tot. Suspended Solids	20	mg/L	2
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	SSC	Suspended Sediment Concentration	7.4	mg/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	HARD	Hardness as CaCO3	240	mg/l	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	COD	COD	5	mg/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	451	uS/cm	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	16.98	Deg C	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	PH_FLD	pH (Field)	8.22	S.U.	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	9.33	mg/l	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	532	uS/cm	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$ICP	Antimony	0.00	mg/L	0.006
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$ICP	Barium	0.0333	mg/L	0.003
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$ICP	Calcium	53.2	mg/L	0.066
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$ICP	Chromium	0.00	mg/L	0.006
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$ICP	Copper	0.00763	mg/L	0.006
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$ICP	Iron	0.151	mg/L	0.018
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$ICP	Lead	0.00	mg/L	0.006
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$ICP	Magnesium	11.4	mg/L	0.021
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$ICP	Manganese	0.0167	mg/L	0.009
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$ICP	Nickel	0.00357	mg/L	0.003
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$ICP	Selenium	0.0262	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$ICP	Silver	0.00	mg/L	0.003
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$ICP	Strontium	0.180	mg/L	0.009
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$ICP	Thallium	0.00	mg/L	0.012
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$ICP	Tin	0.00	mg/L	0.006
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$ICP	Zinc	0.00	mg/L	0.006
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	PB_FU	Lead by Furnace	0.12	ug/L	1.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	AS_FU	Arsenic by Furnace	0.94	ug/L	1.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	CU_FU	Copper by Furnace	2.9	ug/L	1
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	NO2	Nitrite as N	0.0131	mg/l	0.005
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	CHLOROPHYLL	Chlorophyll	4.27	mg/m3	1.00
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	Aldrin	AA	ug/L	0.02
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	Chlordane	AA	ug/L	0.10
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	Endrin	AA	ug/L	0.02
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	Heptachlor	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	Surr: Decachlorobiphenyl	0.860	%	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$PEST	Surr: Tetrachloro-m-xylene	0.835	%	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$624	Chloromethane	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$624	Bromomethane	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$624	Chloroethane	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$624	Acrolein	0	ug/L	100.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$624	Acrylonitrile	0	ug/L	100.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$624	Methylene Chloride	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$624	Chloroform	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$624	1,2-Dichloroethane-d4	45.9	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$624	Benzene	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$624	Trichloroethene	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$624	1,2-Dichloropropane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$624	Bromodichloromethane	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$624	Dibromochloromethane	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$624	Bromoform	6.7	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$624	Tetrachloroethene	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$624	Toluene	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$624	Toluene-d8	57.6	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$624	Chlorobenzene	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$624	Ethylbenzene	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$624	Bromofluorobenzene	92.1	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$624	2-Propanone	0	ug/L	60
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$624	2-Butanone	0	ug/L	60
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$624	Tetrahydrofuran	0	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$624	2-chloroethoxy ethene	0	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$624	TOTAL AMOUNT	352	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$625	pyridine	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$625	2-Fluorophenol	21.9	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$625	aniline	0	ug/L	6.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$625	Phenol-d6	17.2	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$625	Phenol	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$625	2-Chlorophenol	0	ug/L	6.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$625	n-decane	0	ug/L	6.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30		\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		o-cresol	0	ug/L	6.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		acetophenone	0	ug/L	6.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Hexachloroethane	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Nitrobenzene-d5	63.4	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		p-cresol	0	ug/L	6.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Nitrobenzene	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Isophorone	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Decafluorobiphenyl	63.0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Naphthalene	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		1-Fluoronaphthalene	66.9	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		alpha terpineol	0	ug/L	6.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Acenaphthylene	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Acenaphthene	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		4-Nitrophenol	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Diethyl phthalate	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Fluorene	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		2,4,6-Tribromophenol	38.6	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Pentachlorophenol	0	ug/L	6.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		n-octadecane	0	ug/L	6.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Phenanthrene	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Anthracene	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		carbazole	0	ug/L	6.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Fluoranthene	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Benzidine	0	ug/L	6.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Pyrene	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Chrysene	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Hexachloroethane	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Diethylphthalate	0	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		2-Hexanone, 4-hydroxy-3-propyl- T	1	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		1-Isopropyl-2,2-dimethylpropylideneami T	2	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		2-Hexene, 3,5,5-trimethyl- T	9	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		2-Hexene, 3,5,5-trimethyl- T2	2	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		1-Silacyclo-3-pentene T	1	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	2	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		2-Butenal, 3-methyl- T	2	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		2,4,4-Trimethyl-1-hexene T	2	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Pentane, 2,3,4-trimethyl- T	9	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Octane, 3-methyl-6-methylene- T	5	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		Pentane, 2,3,4-trimethyl- T2	2	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		2-Propenoic acid, n-tridecyl ester T	1	ug/L	
AC07762	LM61	Little Miami Watershed	61	9/28/2012	10:30	\$625		TOTAL AMOUNT	609	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50		MF_CF	Fecal Coliform, Membrane Filter	420	CFU/100mL	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50		E-COLI	E.coli (Colilert)	365	MPN	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50		TDS	Total Dissolved Solids	210	mg/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50		SO4	Sulfate	32.7	mg/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50		CL	Chloride	56.6	mg/L	1.00
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50		TSS	Tot. Suspended Solids	12	mg/L	2
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50		SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50		HARD	Hardness as CaCO3	158	mg/l	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50		COD	COD	16	mg/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	374	uS/cm	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50		TEMP_FLD	Temperature (Field) Celsius	17.42	Deg C	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	PH_FLD	pH (Field)	8.17	S.U.	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	DO_FLD	Dissolved Oxygen (field) mg/L	7.91	mg/l	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	437	uS/cm	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$ICP	Antimony	0.00	mg/L	0.006
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$ICP	Arsenic	0.00	mg/L	0.012
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$ICP	Barium	0.0232	mg/L	0.003
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$ICP	Calcium	39.0	mg/L	0.066
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$ICP	Chromium	0.00	mg/L	0.006
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$ICP	Copper	0.00793	mg/L	0.006
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$ICP	Iron	0.570	mg/L	0.018
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$ICP	Lead	0.00	mg/L	0.006
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$ICP	Magnesium	7.36	mg/L	0.021
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$ICP	Manganese	0.0257	mg/L	0.009
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$ICP	Nickel	0.00373	mg/L	0.003
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$ICP	Selenium	0.0133	mg/L	0.009
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$ICP	Silver	0.00	mg/L	0.003
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$ICP	Strontium	0.179	mg/L	0.009
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$ICP	Thallium	0.00	mg/L	0.012
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$ICP	Tin	0.00	mg/L	0.006
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$ICP	Zinc	0.00802	mg/L	0.006
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	PB_FU	Lead by Furnace	0.55	ug/L	1.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	AS_FU	Arsenic by Furnace	0.75	ug/L	1.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	CU_FU	Copper by Furnace	3.3	ug/L	1
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	NH3	Ammonia as N	0	mg/L	0.5
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	NO2	Nitrite as N	0.0112	mg/l	0.005
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	Aldrin	AA	ug/L	0.02
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	Chlordane	AA	ug/L	0.10
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	Dieldrin	AA	ug/L	0.02
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	Endrin	AA	ug/L	0.02
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	Heptachlor	AA	ug/L	0.02
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	Toxaphene	AA	ug/L	1.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	PCB 1016	AA	ug/L	0.5
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	PCB 1221	AA	ug/L	0.5
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	PCB 1232	AA	ug/L	0.5
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	PCB 1242	AA	ug/L	0.5
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	PCB 1248	AA	ug/L	0.5
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	PCB 1254	AA	ug/L	0.5
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	PCB 1260	AA	ug/L	0.5
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	Surr: Decachlorobiphenyl	0.774	%	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$PEST	Surr: Tetrachloro-m-xylene	0.925	%	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624	Chloromethane	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624	Vinyl Chloride	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		Bromomethane	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		Chloroethane	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		Acrolein	0	ug/L	100.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		Acrylonitrile	0	ug/L	100.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		Methylene Chloride	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		Chloroform	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		1,2-Dichloroethane-d4	45.6	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		Benzene	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		Trichloroethene	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		Bromodichloromethane	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		Dibromochloromethane	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		Bromoform	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		Tetrachloroethene	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		Toluene	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		Toluene-d8	56.0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		Chlorobenzene	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		Ethylbenzene	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		Bromofluorobenzene	89.3	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		2-Propanone	0	ug/L	60
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		2-Butanone	0	ug/L	60
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		Tetrahydrofuran	0	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		2-chloroethoxy ethene	0	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$624		TOTAL AMOUNT	341	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		pyridine	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		2-Fluorophenol	38.8	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		aniline	0	ug/L	6.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Phenol-d6	27.2	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Phenol	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		2-Chlorophenol	0	ug/L	6.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		n-decane	0	ug/L	6.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		o-cresol	0	ug/L	6.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		acetophenone	0	ug/L	6.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Hexachloroethane	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Nitrobenzene-d5	68.4	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		p-cresol	0	ug/L	6.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Nitrobenzene	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Isophorone	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Decafluorobiphenyl	57.8	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		2-Nitrophenol	0	ug/L	6.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		2,4-Dichlorophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Naphthalene	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		1-Fluoronaphthalene	65.1	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		alpha terpineol	0	ug/L	6.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Acenaphthylene	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Acenaphthene	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		4-Nitrophenol	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Diethyl phthalate	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Fluorene	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		2,4,6-Tribromophenol	71.5	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Pentachlorophenol	0	ug/L	6.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		n-octadecane	0	ug/L	6.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Phenanthrene	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Anthracene	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		carbazole	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Fluoranthene	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Benzidine	0	ug/L	6.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Pyrene	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Chrysene	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Perylene-D12	50.0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Hexachloroethane	0	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		2,3-Dichloroaniline	0	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Diethylphthalate	0	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Benzo[ghi]perylene	0	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		trans-2,3-Epoxy-nonane T	1	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Hexane, 3-ethyl-4-methyl- T	2	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		2-Hexene, 3,5,5-trimethyl- T	8	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		2-Hexene, 3,5,5-trimethyl- T2	2	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		trans-4,4-Dimethyl-2-hexene T	1	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	2	ug/L	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Analysis Code	Analysis Description	Results	Units	MDL
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625	Propanoic acid, 2-methyl-, 2-methylbut T	2	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625	Pentane, 2,3,4-trimethyl- T	9	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625	1-Octene, 3-ethyl- T	4	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625	Pentane, 2,3,4-trimethyl- T2	2	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625	1,3,2-Dioxaborolane, 2,4-diethyl- T	1	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625	Bis(2-ethylhexyl) phthalate T2	1	ug/L	
AC07763	LM56	Little Miami Watershed	56	9/28/2012	10:50	\$625	TOTAL AMOUNT	663	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	MF_CF	Fecal Coliform, Membrane Filter	157	CFU/100mL	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	E-COLI	E.coli (Colilert)	187	MPN	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	TDS	Total Dissolved Solids	400	mg/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	SO4	Sulfate	46.0	mg/L	12.5
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	CL	Chloride	46.7	mg/L	1.00
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	TSS	Tot. Suspended Solids	12	mg/L	2
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	HARD	Hardness as CaCO3	266	mg/l	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	COD	COD	12	mg/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	486	uS/cm	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	TEMP_FLD	Temperature (Field) Celsius	17.14	Deg C	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	PH_FLD	pH (Field)	8.20	S.U.	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	DO_FLD	Dissolved Oxygen (field) mg/L	9.52	mg/l	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	572	uS/cm	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$ICP	Antimony	0.00	mg/L	0.006
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$ICP	Barium	0.0305	mg/L	0.003
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$ICP	Calcium	72.5	mg/L	0.066
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$ICP	Chromium	0.00	mg/L	0.006
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$ICP	Copper	0.00629	mg/L	0.006
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$ICP	Iron	0.0402	mg/L	0.018

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$ICP	Lead	0.00	mg/L	0.006
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$ICP	Magnesium	15.2	mg/L	0.021
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$ICP	Manganese	0.0200	mg/L	0.009
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$ICP	Nickel	0.00	mg/L	0.003
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$ICP	Selenium	0.0246	mg/L	0.009
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$ICP	Silver	0.00	mg/L	0.003
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$ICP	Strontium	0.253	mg/L	0.009
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$ICP	Thallium	0.00	mg/L	0.012
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$ICP	Tin	0.00	mg/L	0.006
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$ICP	Zinc	0.00	mg/L	0.006
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	PB_FU	Lead by Furnace	0.03	ug/L	1.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	AS_FU	Arsenic by Furnace	0.53	ug/L	1.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	CU_FU	Copper by Furnace	1.9	ug/L	1
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	NO2	Nitrite as N	0.0118	mg/l	0.005
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	Aldrin	AA	ug/L	0.02
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	Chlordane	AA	ug/L	0.10
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	Endosulfan I	AA	ug/L	0.05

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	Endrin	AA	ug/L	0.02
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	Surr: Decachlorobiphenyl	0.819	%	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$PEST	Surr: Tetrachloro-m-xylene	0.866	%	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624	Chloromethane	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624	Bromomethane	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624	Chloroethane	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624	Acrolein	0	ug/L	100.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624	Acrylonitrile	0	ug/L	100.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624	Methylene Chloride	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624	Chloroform	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624	1,2-Dichloroethane-d4	46.0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		Benzene	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		Trichloroethene	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		Bromoform	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		Toluene	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		Toluene-d8	57.7	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		Chlorobenzene	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		Ethylbenzene	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		Bromofluorobenzene	89.5	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		2-Propanone	0	ug/L	60
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		2-Butanone	0	ug/L	60
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		Tetrahydrofuran	0	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$624		TOTAL AMOUNT	343	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		pyridine	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		2-Fluorophenol	30.8	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		aniline	13.6	ug/L	6.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Phenol-d6	21.8	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Phenol	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		n-decane	0	ug/L	6.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		o-cresol	0	ug/L	6.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		acetophenone	0	ug/L	6.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Hexachloroethane	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Nitrobenzene-d5	61.4	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		p-cresol	0	ug/L	6.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Nitrobenzene	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Isophorone	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Decafluorobiphenyl	52.5	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Naphthalene	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		1-Fluoronaphthalene	60.0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		alpha terpineol	0	ug/L	6.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Acenaphthylene	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		2,6-Dinitrotoluene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Acenaphthene	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		4-Nitrophenol	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Diethyl phthalate	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Fluorene	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		2,4,6-Tribromophenol	67.7	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Pentachlorophenol	0	ug/L	6.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		n-octadecane	0	ug/L	6.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Phenanthrene	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Anthracene	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		carbazole	0	ug/L	6.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Fluoranthene	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Benzidine	0	ug/L	6.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Pyrene	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Chrysene	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Hexachloroethane	0	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Diethylphthalate	0	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		1-Isopropyl-2,2-dimethylpropylideneami T	1	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		2-Hexene, 2,5,5-trimethyl- T	8	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		2-Hexene, 3,5,5-trimethyl- T	2	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	2	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Undecane, 3,3-dimethyl- T	1	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Pentane, 2,3,4-trimethyl- T	7	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Octane, 3-methyl-6-methylene- T	4	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Pentane, 2,3,4-trimethyl- T2	2	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Benzene, isocyanato- T	3	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		.alpha.-Phellandrene T	1	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		Benzo[b]selenophene-2-carbonitrile, 3- T	2	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		2-(2-Furyl)-7-methyl-4-quinolinecarbox T	1	ug/L	
AC07764	LM67	Little Miami Watershed	67	9/28/2012	11:30	\$625		TOTAL AMOUNT	643	ug/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40		MF_CF	Fecal Coliform, Membrane Filter	136	CFU/100mL	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40		E-COLI	E.coli (Colilert)	172	MPN	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40		TDS	Total Dissolved Solids	300	mg/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40		SO4	Sulfate	46.0	mg/L	1.00
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40		CL	Chloride	35.8	mg/L	1.00
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40		TSS	Tot. Suspended Solids	14	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	HARD	Hardness as CaCO3	228	mg/l	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	COD	COD	15	mg/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	452	uS/cm	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	TEMP_FLD	Temperature (Field) Celsius	16.65	Deg C	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	PH_FLD	pH (Field)	8.51	S.U.	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	DO_FLD	Dissolved Oxygen (field) mg/L	11.05	mg/l	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	514	uS/cm	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$ICP	Antimony	0.00	mg/L	0.006
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$ICP	Arsenic	0.00	mg/L	0.012
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$ICP	Barium	0.0305	mg/L	0.003
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$ICP	Calcium	66.9	mg/L	0.066
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$ICP	Chromium	0.00	mg/L	0.006
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$ICP	Copper	0.00	mg/L	0.006
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$ICP	Iron	0.118	mg/L	0.018
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$ICP	Lead	0.00	mg/L	0.006
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$ICP	Magnesium	15.2	mg/L	0.021
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$ICP	Manganese	0.00	mg/L	0.009
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$ICP	Nickel	0.00	mg/L	0.003
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$ICP	Selenium	0.0215	mg/L	0.009
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$ICP	Silver	0.00	mg/L	0.003
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$ICP	Strontium	0.255	mg/L	0.009
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$ICP	Thallium	0.0198	mg/L	0.012
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$ICP	Tin	0.00	mg/L	0.006
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$ICP	Zinc	0.00	mg/L	0.006
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	PB_FU	Lead by Furnace	0.11	ug/L	1.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	AS_FU	Arsenic by Furnace	0.75	ug/L	1.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	CD_FU	Cadmium by Furnace	AA	ug/L	1



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	CU_FU	Copper by Furnace	2.1	ug/L	1
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	NH3	Ammonia as N	0	mg/L	0.5
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	NO3NO2	Nitrate + Nitrite	1.91	mg/L	0.5
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	NO2	Nitrite as N	0.0104	mg/l	0.005
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	NO3	Nitrate as N (calculated)	1.8996	mg/l	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	Aldrin	AA	ug/L	0.02
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	Chlordane	AA	ug/L	0.10
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	Dieldrin	AA	ug/L	0.02
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	Endrin	AA	ug/L	0.02
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	Heptachlor	AA	ug/L	0.02
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	Toxaphene	AA	ug/L	1.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	PCB 1016	AA	ug/L	0.5
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	PCB 1221	AA	ug/L	0.5
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	PCB 1232	AA	ug/L	0.5
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	PCB 1242	AA	ug/L	0.5
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	PCB 1248	AA	ug/L	0.5
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	PCB 1254	AA	ug/L	0.5
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	PCB 1260	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	Surr: Decachlorobiphenyl	0.859	%	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$PEST	Surr: Tetrachloro-m-xylene	0.915	%	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	Chloromethane	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	Vinyl Chloride	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	Bromomethane	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	Chloroethane	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	Acrolein	0	ug/L	100.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	Acrylonitrile	0	ug/L	100.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	Methylene Chloride	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	Chloroform	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	1,2-Dichloroethane-d4	44.6	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	Benzene	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	Trichloroethene	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	Bromodichloromethane	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	Dibromochloromethane	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	Bromoform	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	Tetrachloroethene	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624		Toluene	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624		Toluene-d8	58.6	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624		Chlorobenzene	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624		Ethylbenzene	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624		Bromofluorobenzene	89.6	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624		2-Propanone	0	ug/L	60
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624		2-Butanone	0	ug/L	60
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624		Tetrahydrofuran	0	ug/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624		2-chloroethoxy ethene	0	ug/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$624		TOTAL AMOUNT	343	ug/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		pyridine	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		2-Fluorophenol	44.0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		aniline	0	ug/L	6.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Phenol-d6	28.2	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Phenol	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		2-Chlorophenol	0	ug/L	6.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		n-decane	0	ug/L	6.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		o-cresol	0	ug/L	6.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		acetophenone	0	ug/L	6.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Hexachloroethane	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Nitrobenzene-d5	70.2	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		p-cresol	0	ug/L	6.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Nitrobenzene	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Isophorone	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Decafluorobiphenyl	60.4	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		2-Nitrophenol	0	ug/L	6.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Naphthalene	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		1-Fluoronaphthalene	68.8	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		alpha terpineol	0	ug/L	6.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Acenaphthylene	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Acenaphthene	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		4-Nitrophenol	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Diethyl phthalate	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Fluorene	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		2,4,6-Tribromophenol	75.5	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Hexachlorobenzene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Pentachlorophenol	0	ug/L	6.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		n-octadecane	0	ug/L	6.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Phenanthrene	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Anthracene	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		carbazole	0	ug/L	6.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Fluoranthene	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Benzidine	0	ug/L	6.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Pyrene	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Chrysene	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Perylene-D12	50.0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Hexachloroethane	0	ug/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		2,3-Dichloroaniline	0	ug/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Diethylphthalate	0	ug/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Benzo[ghi]perylene	0	ug/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Cyclopentane, 1,2,3-trimethyl-, (1.alpha.T	2	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		2-Hexene, 2,5,5-trimethyl- T	8	ug/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		2-Hexene, 3,5,5-trimethyl- T	2	ug/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	5	ug/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	3	ug/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Propanoic acid, 2-methyl-, 2-methylbut T	2	ug/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Decane, 3,3,4-trimethyl- T	9	ug/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		1-Heptene, 4-methyl- T	5	ug/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		Pentane, 2,3,4-trimethyl- T	2	ug/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		3,6-Dimethyl-2,3,3a,4,5,7a-hexahydrobe T	2	ug/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		2-(2-Furyl)-7-methyl-4-quinolinecarbox T	3	ug/L	
AC07765	LM66	Little Miami Watershed	66	9/28/2012	11:40	\$625		TOTAL AMOUNT	688	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30		MF_CF	Fecal Coliform, Membrane Filter	625	CFU/100mL	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30		E-COLI	E.coli (Colilert)	1553	MPN	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30		TDS	Total Dissolved Solids	160	mg/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30		SO4	Sulfate	14.4	mg/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30		CL	Chloride	13.4	mg/L	1.00
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30		TSS	Tot. Suspended Solids	8	mg/L	2
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30		SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30		HARD	Hardness as CaCO3	192	mg/l	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30		COD	COD	20	mg/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	318	uS/cm	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30		TEMP_FLD	Temperature (Field) Celsius	17.69	Deg C	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30		PH_FLD	pH (Field)	7.83	S.U.	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30		DO_FLD	Dissolved Oxygen (field) mg/L	8.63	mg/l	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30		CONDUCTIVITY	Specific Conductivity (uS/cm)	370	uS/cm	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30		\$ICP	Aluminum	0.00	mg/L	0.348
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30		\$ICP	Antimony	0.00	mg/L	0.006
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30		\$ICP	Arsenic	0.00	mg/L	0.012
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30		\$ICP	Barium	0.0252	mg/L	0.003
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30		\$ICP	Beryllium	0.00	mg/L	0.009
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30		\$ICP	Cadmium	0.00	mg/L	0.012
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30		\$ICP	Calcium	33.2	mg/L	0.066

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$ICP	Chromium	0.00	mg/L	0.006
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$ICP	Copper	0.00	mg/L	0.006
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$ICP	Iron	0.257	mg/L	0.018
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$ICP	Lead	0.00	mg/L	0.006
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$ICP	Magnesium	8.82	mg/L	0.021
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$ICP	Manganese	0.142	mg/L	0.009
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$ICP	Nickel	0.00	mg/L	0.003
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$ICP	Selenium	0.0105	mg/L	0.009
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$ICP	Silver	0.00	mg/L	0.003
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$ICP	Strontium	0.0884	mg/L	0.009
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$ICP	Thallium	0.0161	mg/L	0.012
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$ICP	Tin	0.00	mg/L	0.006
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$ICP	Zinc	0.00	mg/L	0.006
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	PB_FU	Lead by Furnace	0.17	ug/L	1.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	AS_FU	Arsenic by Furnace	1.90	ug/L	1.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	CU_FU	Copper by Furnace	AA	ug/L	1
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	TKN	Total Kjeldahl Nitrogen	0.6409	mg/L	0.5
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	NO2	Nitrite as N	0.0078	mg/l	0.005
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	CHLOROPHYLL	Chlorophyll	9.49	mg/m3	1.00
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	Aldrin	AA	ug/L	0.02
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	Chlordane	AA	ug/L	0.10
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	4,4-DDD	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	Endrin	AA	ug/L	0.02
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	Surr: Decachlorobiphenyl	0.894	%	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$PEST	Surr: Tetrachloro-m-xylene	0.891	%	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624	Chloromethane	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624	Bromomethane	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624	Chloroethane	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624	Acrolein	0	ug/L	100.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624	Acrylonitrile	0	ug/L	100.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624	Methylene Chloride	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624	Chloroform	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		1,2-Dichloroethane-d4	45.7	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		Benzene	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		Trichloroethene	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		Bromoform	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		Toluene	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		Toluene-d8	56.7	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		Chlorobenzene	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		Ethylbenzene	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		Bromofluorobenzene	91.8	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		2-Propanone	0	ug/L	60
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		2-Butanone	0	ug/L	60
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		Tetrahydrofuran	0	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$624		TOTAL AMOUNT	344	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		pyridine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		2-Fluorophenol	44.4	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		aniline	0	ug/L	6.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Phenol-d6	30.9	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Phenol	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		n-decane	0	ug/L	6.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		o-cresol	0	ug/L	6.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		acetophenone	0	ug/L	6.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Hexachloroethane	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Nitrobenzene-d5	71.1	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		p-cresol	0	ug/L	6.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Nitrobenzene	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Isophorone	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Decafluorobiphenyl	67.4	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Naphthalene	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		1-Fluoronaphthalene	65.6	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		alpha terpineol	0	ug/L	6.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Acenaphthylene	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Acenaphthene	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		4-Nitrophenol	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Diethyl phthalate	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Fluorene	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		2,4,6-Tribromophenol	83.5	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Pentachlorophenol	0	ug/L	6.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		n-octadecane	0	ug/L	6.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Phenanthrene	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Anthracene	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		carbazole	0	ug/L	6.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Fluoranthene	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Benzidine	0	ug/L	6.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Pyrene	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		Chrysene	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Perylene-D12	50.0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Hexachloroethane	0	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	2,3-Dichloroaniline	0	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Diethylphthalate	0	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Benzo[ghi]perylene	0	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Hexane, 2,2,5,5-tetramethyl- T	12	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Dodecane, 2,2,11,11-tetramethyl- T	30	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Undecane, 2,2-dimethyl- T	12	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Decane, 5-propyl- T	39	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Decane, 3,6-dimethyl- T	80	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Dodecane, 2,7,10-trimethyl- T	14	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Octane, 2,6-dimethyl- T	27	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Pentane, 3,3-dimethyl- T	26	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Dodecane, 2,7,10-trimethyl- T2	13	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Phenol, 2,4-bis(1,1-dimethylethyl)- T	31	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Docosane T	13	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	Octadecanoic acid, 2-hydroxy-1-(hydrox T	13	ug/L	
AC07819	LM25	Little Miami Watershed	25	10/1/2012	10:30	\$625	TOTAL AMOUNT	970	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	MF_CF	Fecal Coliform, Membrane Filter	143	CFU/100mL	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	E-COLI	E.coli (Colilert)	158	MPN	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	TDS	Total Dissolved Solids	90	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	SO4	Sulfate	15.0	mg/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	CL	Chloride	13.5	mg/L	1.00
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	TSS	Tot. Suspended Solids	6	mg/L	2
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	HARD	Hardness as CaCO3	172	mg/l	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	COD	COD	5	mg/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	225	uS/cm	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	TEMP_FLD	Temperature (Field) Celsius	20.14	Deg C	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	PH_FLD	pH (Field)	7.73	S.U.	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	DO_FLD	Dissolved Oxygen (field) mg/L	8.40	mg/l	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	248	uS/cm	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$ICP	Antimony	0.00	mg/L	0.006
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$ICP	Arsenic	0.00	mg/L	0.012
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$ICP	Barium	0.0246	mg/L	0.003
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$ICP	Calcium	34.2	mg/L	0.066
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$ICP	Chromium	0.00	mg/L	0.006
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$ICP	Copper	0.00	mg/L	0.006
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$ICP	Iron	0.136	mg/L	0.018
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$ICP	Lead	0.00	mg/L	0.006
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$ICP	Magnesium	8.86	mg/L	0.021
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$ICP	Manganese	0.0421	mg/L	0.009
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$ICP	Nickel	0.00	mg/L	0.003
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$ICP	Selenium	0.0153	mg/L	0.009
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$ICP	Silver	0.00	mg/L	0.003
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$ICP	Strontium	0.0948	mg/L	0.009
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$ICP	Thallium	0.00	mg/L	0.012
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$ICP	Tin	0.00	mg/L	0.006
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$ICP	Vanadium	0.00	mg/L	0.018

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$ICP	Zinc	0.00	mg/L	0.006
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	PB_FU	Lead by Furnace	0.11	ug/L	1.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	AS_FU	Arsenic by Furnace	1.61	ug/L	1.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	CU_FU	Copper by Furnace	1.0	ug/L	1
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	NH3	Ammonia as N	0	mg/L	0.5
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	TKN	Total Kjeldahl Nitrogen	0.5924	mg/L	0.5
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	NO2	Nitrite as N	0.0135	mg/l	0.005
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	Aldrin	AA	ug/L	0.02
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	Chlordane	AA	ug/L	0.10
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	Dieldrin	AA	ug/L	0.02
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	Endrin	AA	ug/L	0.02
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	Heptachlor	AA	ug/L	0.02
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	Toxaphene	AA	ug/L	1.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	PCB 1016	AA	ug/L	0.5
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	PCB 1221	AA	ug/L	0.5
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	PCB 1232	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	PCB 1242	AA	ug/L	0.5
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	PCB 1248	AA	ug/L	0.5
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	PCB 1254	AA	ug/L	0.5
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	PCB 1260	AA	ug/L	0.5
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	Surr: Decachlorobiphenyl	0.885	%	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$PEST	Surr: Tetrachloro-m-xylene	0.833	%	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	Chloromethane	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	Vinyl Chloride	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	Bromomethane	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	Chloroethane	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	Acrolein	0	ug/L	100.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	Acrylonitrile	0	ug/L	100.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	Methylene Chloride	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	Chloroform	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	1,2-Dichloroethane-d4	44.1	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	Benzene	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	Trichloroethene	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	Bromodichloromethane	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624	Dibromochloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624		Bromoform	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624		Tetrachloroethene	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624		Toluene	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624		Toluene-d8	57.2	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624		Chlorobenzene	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624		Ethylbenzene	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624		Bromofluorobenzene	93.6	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624		2-Propanone	0	ug/L	60
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624		2-Butanone	0	ug/L	60
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624		Tetrahydrofuran	0	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624		2-chloroethoxy ethene	0	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$624		TOTAL AMOUNT	345	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		pyridine	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		2-Fluorophenol	43.7	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		aniline	0	ug/L	6.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Phenol-d6	30.5	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Phenol	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		2-Chlorophenol	0	ug/L	6.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		n-decane	0	ug/L	6.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		o-cresol	0	ug/L	6.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		acetophenone	0	ug/L	6.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Hexachloroethane	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Naphthalene-D8	50.0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Nitrobenzene-d5	75.5	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		p-cresol	0	ug/L	6.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Nitrobenzene	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Isophorone	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Decafluorobiphenyl	71.0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		2-Nitrophenol	0	ug/L	6.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Naphthalene	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		1-Fluoronaphthalene	65.6	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		alpha terpineol	0	ug/L	6.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Acenaphthylene	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Acenaphthene	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		4-Nitrophenol	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Diethyl phthalate	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Fluorene	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		n-nitrosodiphenylamine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		2,4,6-Tribromophenol	79.6	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Pentachlorophenol	0	ug/L	6.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		n-octadecane	0	ug/L	6.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Phenanthrene	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Anthracene	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		carbazole	0	ug/L	6.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Fluoranthene	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Benzidine	0	ug/L	6.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Pyrene	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Chrysene	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Perylene-D12	50.0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Hexachloroethane	0	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		2,3-Dichloroaniline	0	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Diethylphthalate	0	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Benzo[k]fluoranthene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Benzo[ghi]perylene	0	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		2-Hexanone, 4-hydroxy-3-propyl- T	1	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Hexane, 1-(hexyloxy)-4-methyl- T	2	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		2-Hexene, 3,5,5-trimethyl- T	8	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		2-Hexene, 3,5,5-trimethyl- T2	2	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Cyclopropane, 2-bromo-1,1,3-trimethyl- T	1	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	10	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		2-Butenal, 3-methyl- T	2	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		2,4,4-Trimethyl-1-hexene T	2	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Decane, 3,3,4-trimethyl- T	9	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Octane, 3-methyl-6-methylene- T	4	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Pentane, 2,3,4-trimethyl- T	2	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		Triphenylphosphine oxide T	3	ug/L	
AC07820	LM26	Little Miami Watershed	26	10/1/2012	10:50	\$625		TOTAL AMOUNT	712	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	MF_CF		Fecal Coliform, Membrane Filter	171	CFU/100mL	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	E-COLI		E.coli (Colilert)	236	MPN	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	TDS		Total Dissolved Solids	120	mg/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	BOD		Biochemical Oxygen Demand	2	mg/L	2
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	SO4		Sulfate	15.9	mg/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	CL		Chloride	13.9	mg/L	1.00
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	TSS		Tot. Suspended Solids	6	mg/L	2
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	SSC		Suspended Sediment Concentration	AA	mg/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	HARD		Hardness as CaCO3	168	mg/l	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	COD		COD	10	mg/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	CONDUCTIVITY-R		Relative Conductivity (uS/cm)	223	uS/cm	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	TEMP_FLD		Temperature (Field) Celsius	18.22	Deg C	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	PH_FLD		pH (Field)	7.69	S.U.	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	DO_FLD		Dissolved Oxygen (field) mg/L	8.25	mg/l	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	CONDUCTIVITY		Specific Conductivity (uS/cm)	256	uS/cm	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$ICP		Aluminum	0.00	mg/L	0.348
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$ICP		Antimony	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$ICP	Arsenic	0.00	mg/L	0.012
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$ICP	Barium	0.0259	mg/L	0.003
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$ICP	Beryllium	0.00	mg/L	0.009
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$ICP	Cadmium	0.00	mg/L	0.012
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$ICP	Calcium	34.8	mg/L	0.066
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$ICP	Chromium	0.00	mg/L	0.006
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$ICP	Cobalt	0.00	mg/L	0.006
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$ICP	Copper	0.00	mg/L	0.006
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$ICP	Iron	0.405	mg/L	0.018
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$ICP	Lead	0.00	mg/L	0.006
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$ICP	Magnesium	8.90	mg/L	0.021
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$ICP	Manganese	0.0562	mg/L	0.009
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$ICP	Nickel	0.00	mg/L	0.003
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$ICP	Selenium	0.0173	mg/L	0.009
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$ICP	Silver	0.00	mg/L	0.003
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$ICP	Strontium	0.0954	mg/L	0.009
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$ICP	Thallium	0.00	mg/L	0.012
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$ICP	Tin	0.00	mg/L	0.006
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$ICP	Vanadium	0.00	mg/L	0.018
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$ICP	Zinc	0.00	mg/L	0.006
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	PB_FU	Lead by Furnace	0.51	ug/L	1.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	AS_FU	Arsenic by Furnace	1.85	ug/L	1.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	CU_FU	Copper by Furnace	AA	ug/L	1
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	NH3	Ammonia as N	0	mg/L	0.5
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	TKN	Total Kjeldahl Nitrogen	0.5692	mg/L	0.5
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	NO2	Nitrite as N	0.0140	mg/l	0.005
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	Aldrin	AA	ug/L	0.02
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	Alpha-BHC	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	Chlordane	AA	ug/L	0.10
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	Dieldrin	AA	ug/L	0.02
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	Endrin	AA	ug/L	0.02
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	Heptachlor	AA	ug/L	0.02
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	Toxaphene	AA	ug/L	1.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	PCB 1016	AA	ug/L	0.5
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	PCB 1221	AA	ug/L	0.5
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	PCB 1232	AA	ug/L	0.5
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	PCB 1242	AA	ug/L	0.5
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	PCB 1248	AA	ug/L	0.5
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	PCB 1254	AA	ug/L	0.5
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	PCB 1260	AA	ug/L	0.5
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	Surr: Decachlorobiphenyl	0.942	%	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$PEST	Surr: Tetrachloro-m-xylene	0.879	%	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624	Chloromethane	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624	Vinyl Chloride	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624	Bromomethane	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624	Chloroethane	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624	Acrolein	0	ug/L	100.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624	1,1-Dichloroethene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		Acrylonitrile	0	ug/L	100.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		Methylene Chloride	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		Chloroform	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		1,2-Dichloroethane-d4	45.4	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		Benzene	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		Trichloroethene	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		Bromodichloromethane	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		Dibromochloromethane	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		Bromoform	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		Tetrachloroethene	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		Toluene	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		Toluene-d8	56.5	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		Chlorobenzene	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		Ethylbenzene	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		Bromofluorobenzene	93.9	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		2-Propanone	0	ug/L	60
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624		2-Butanone	0	ug/L	60

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624	Tetrahydrofuran	0	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624	2-chloroethoxy ethene	0	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$624	TOTAL AMOUNT	346	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	pyridine	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	2-Fluorophenol	43.0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	aniline	0	ug/L	6.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	Phenol-d6	27.9	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	Phenol	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	2-Chlorophenol	0	ug/L	6.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	n-decane	0	ug/L	6.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	o-cresol	0	ug/L	6.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	acetophenone	0	ug/L	6.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	Hexachloroethane	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	Nitrobenzene-d5	76.4	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	p-cresol	0	ug/L	6.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	Nitrobenzene	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	Isophorone	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	Decafluorobiphenyl	84.1	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	2-Nitrophenol	0	ug/L	6.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	Naphthalene	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	1-Fluoronaphthalene	75.1	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	alpha terpineol	0	ug/L	6.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	Hexachlorobutadiene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Acenaphthylene	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Acenaphthene	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		4-Nitrophenol	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Diethyl phthalate	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Fluorene	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		2,4,6-Tribromophenol	91.5	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Pentachlorophenol	0	ug/L	6.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		n-octadecane	0	ug/L	6.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Phenanthrene	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Anthracene	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		carbazole	0	ug/L	6.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Fluoranthene	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Benzidine	0	ug/L	6.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Pyrene	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Chrysene	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Perylene-D12	50.0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Hexachloroethane	0	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		2,3-Dichloroaniline	0	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Diethylphthalate	0	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Benzo[ghi]perylene	0	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		1-Pentene, 3-ethyl- T	1	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Hexane, 1-(hexyloxy)-4-methyl- T	2	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		2-Hexene, 3,5,5-trimethyl- T	8	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		2-Hexene, 3,5,5-trimethyl- T2	2	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		5-Methyl-1-heptanol T	1	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	3	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	2	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		2,4,4-Trimethyl-1-hexene T	2	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Decane, 3,3,4-trimethyl- T	8	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		1-Octene, 3-ethyl- T	4	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625		Pentane, 2,3,4-trimethyl- T	2	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	Triphenylphosphine oxide T	4	ug/L	
AC07821	LM27	Little Miami Watershed	27	10/1/2012	11:11	\$625	TOTAL AMOUNT	738	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	MF_CF	Fecal Coliform, Membrane Filter	210	CFU/100mL	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	E-COLI	E.coli (Colilert)	326	MPN	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	TDS	Total Dissolved Solids	100	mg/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	SO4	Sulfate	15.5	mg/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	CL	Chloride	14.6	mg/L	1.00
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	TSS	Tot. Suspended Solids	8	mg/L	2
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	SSC	Suspended Sediment Concentration	6.6	mg/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	HARD	Hardness as CaCO3	188	mg/l	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	COD	COD	5	mg/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	225	uS/cm	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	TEMP_FLD	Temperature (Field) Celsius	17.98	Deg C	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	PH_FLD	pH (Field)	7.81	S.U.	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	DO_FLD	Dissolved Oxygen (field) mg/L	8.36	mg/l	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	260	uS/cm	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$ICP	Aluminum	0.00	mg/L	0.348
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$ICP	Antimony	0.00	mg/L	0.006
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$ICP	Arsenic	0.00	mg/L	0.012
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$ICP	Barium	0.0261	mg/L	0.003
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$ICP	Calcium	35.4	mg/L	0.066
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$ICP	Chromium	0.00	mg/L	0.006
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$ICP	Copper	0.00	mg/L	0.006
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$ICP	Iron	0.198	mg/L	0.018
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$ICP	Lead	0.00	mg/L	0.006
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$ICP	Magnesium	9.00	mg/L	0.021
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$ICP	Manganese	0.0460	mg/L	0.009
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$ICP	Nickel	0.00	mg/L	0.003
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$ICP	Selenium	0.0118	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$ICP	Silver	0.00	mg/L	0.003
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$ICP	Strontium	0.103	mg/L	0.009
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$ICP	Thallium	0.00	mg/L	0.012
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$ICP	Tin	0.00	mg/L	0.006
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$ICP	Zinc	0.00	mg/L	0.006
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	PB_FU	Lead by Furnace	0.20	ug/L	1.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	AS_FU	Arsenic by Furnace	1.76	ug/L	1.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	CU_FU	Copper by Furnace	AA	ug/L	1
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	NH3	Ammonia as N	0	mg/L	0.5
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	TKN	Total Kjeldahl Nitrogen	0.5934	mg/L	0.5
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	NO2	Nitrite as N	0.0118	mg/l	0.005
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	Aldrin	AA	ug/L	0.02
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	Chlordane	AA	ug/L	0.10
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	Dieldrin	AA	ug/L	0.02
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	Endrin	AA	ug/L	0.02
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	Heptachlor	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	Toxaphene	AA	ug/L	1.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	PCB 1016	AA	ug/L	0.5
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	PCB 1221	AA	ug/L	0.5
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	PCB 1232	AA	ug/L	0.5
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	PCB 1242	AA	ug/L	0.5
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	PCB 1248	AA	ug/L	0.5
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	PCB 1254	AA	ug/L	0.5
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	PCB 1260	AA	ug/L	0.5
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	Surr: Decachlorobiphenyl	0.785	%	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$PEST	Surr: Tetrachloro-m-xylene	0.861	%	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624	Chloromethane	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624	Vinyl Chloride	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624	Bromomethane	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624	Chloroethane	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624	Acrolein	0	ug/L	100.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624	Acrylonitrile	0	ug/L	100.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624	Methylene Chloride	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624	Chloroform	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624	1,2-Dichloroethane-d4	44.8	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624	Benzene	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624	Trichloroethene	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624	1,2-Dichloropropane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624		Bromodichloromethane	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624		Dibromochloromethane	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624		Bromoform	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624		Tetrachloroethene	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624		Toluene	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624		Toluene-d8	57.7	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624		Chlorobenzene	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624		Ethylbenzene	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624		Bromofluorobenzene	92.3	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624		2-Propanone	0	ug/L	60
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624		2-Butanone	0	ug/L	60
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624		Tetrahydrofuran	0	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624		2-chloroethoxy ethene	0	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$624		TOTAL AMOUNT	345	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		pyridine	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		2-Fluorophenol	35.0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		aniline	0	ug/L	6.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Phenol-d6	25.4	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Phenol	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		2-Chlorophenol	0	ug/L	6.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		n-decane	0	ug/L	6.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		o-cresol	0	ug/L	6.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		acetophenone	0	ug/L	6.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Hexachloroethane	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Nitrobenzene-d5	73.3	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		p-cresol	0	ug/L	6.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Nitrobenzene	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Isophorone	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Decafluorobiphenyl	74.7	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		2-Nitrophenol	0	ug/L	6.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Naphthalene	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		1-Fluoronaphthalene	69.6	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		alpha terpineol	0	ug/L	6.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Acenaphthylene	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Acenaphthene	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		4-Nitrophenol	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Diethyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Fluorene	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		2,4,6-Tribromophenol	77.8	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Pentachlorophenol	0	ug/L	6.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		n-octadecane	0	ug/L	6.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Phenanthrene	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Anthracene	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		carbazole	0	ug/L	6.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Fluoranthene	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Benzidine	0	ug/L	6.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Pyrene	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Chrysene	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Perylene-D12	50.0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Hexachloroethane	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		2,3-Dichloroaniline	0	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Diethylphthalate	0	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Benzo[ghi]perylene	0	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		2-Butene, 2,3-dimethyl- T	2	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		1-Isopropyl-2,2-dimethylpropylideneami T	2	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		2-Hexene, 2,5,5-trimethyl- T	7	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		2-Hexene, 3,5,5-trimethyl- T	2	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		1-(1-Methyl-cyclopentyl)-ethanone T	1	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	2	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Cyclopentanone, 2-ethyl- T	2	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Pentane, 2,3,4-trimethyl- T	2	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Decane, 3,3,4-trimethyl- T	8	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		1-Octene, 3-ethyl- T	4	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Pentane, 2,3,4-trimethyl- T2	2	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		Formylmethylenetriphenylphosphorane T	4	ug/L	
AC07822	LM28	Little Miami Watershed	28	10/1/2012	11:20	\$625		TOTAL AMOUNT	694	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	MF_CF		Fecal Coliform, Membrane Filter	136	CFU/100mL	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	E-COLI		E.coli (Colilert)	365	MPN	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	TDS		Total Dissolved Solids	110	mg/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	BOD		Biochemical Oxygen Demand	2	mg/L	2
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	SO4		Sulfate	21.2	mg/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	CL		Chloride	18.7	mg/L	1.00
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	TSS		Tot. Suspended Solids	6	mg/L	2
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	SSC		Suspended Sediment Concentration	6.3	mg/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	HARD		Hardness as CaCO3	158	mg/l	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	COD		COD	5	mg/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	CONDUCTIVITY-R		Relative Conductivity (uS/cm)	230	uS/cm	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	TEMP_FLD		Temperature (Field) Celsius	17.80	Deg C	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	PH_FLD	pH (Field)	7.64	S.U.	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	DO_FLD	Dissolved Oxygen (field) mg/L	8.48	mg/l	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	266	uS/cm	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$ICP	Aluminum	0.532	mg/L	0.348
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$ICP	Antimony	0.00	mg/L	0.006
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$ICP	Arsenic	0.00	mg/L	0.012
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$ICP	Barium	0.0286	mg/L	0.003
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$ICP	Calcium	40.6	mg/L	0.066
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$ICP	Chromium	0.00	mg/L	0.006
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$ICP	Copper	0.00	mg/L	0.006
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$ICP	Iron	1.02	mg/L	0.018
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$ICP	Lead	0.00	mg/L	0.006
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$ICP	Magnesium	9.98	mg/L	0.021
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$ICP	Manganese	0.0884	mg/L	0.009
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$ICP	Nickel	0.00	mg/L	0.003
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$ICP	Selenium	0.0138	mg/L	0.009
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$ICP	Silver	0.00	mg/L	0.003
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$ICP	Strontium	0.114	mg/L	0.009
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$ICP	Thallium	0.00	mg/L	0.012
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$ICP	Tin	0.00	mg/L	0.006
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$ICP	Zinc	0.00956	mg/L	0.006
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	PB_FU	Lead by Furnace	1.20	ug/L	1.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	AS_FU	Arsenic by Furnace	1.65	ug/L	1.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	CU_FU	Copper by Furnace	2.0	ug/L	1
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	NH3	Ammonia as N	0	mg/L	0.5
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	NO3NO2	Nitrate + Nitrite	1.25	mg/L	0.5
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	TKN	Total Kjeldahl Nitrogen	0.8944	mg/L	0.5
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	NO2	Nitrite as N	0.0145	mg/l	0.005
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	NO3	Nitrate as N (calculated)	1.2355	mg/l	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	Aldrin	AA	ug/L	0.02
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	Chlordane	AA	ug/L	0.10
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	Dieldrin	AA	ug/L	0.02
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	Endrin	AA	ug/L	0.02
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	Heptachlor	AA	ug/L	0.02
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	Toxaphene	AA	ug/L	1.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	PCB 1016	AA	ug/L	0.5
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	PCB 1221	AA	ug/L	0.5
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	PCB 1232	AA	ug/L	0.5
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	PCB 1242	AA	ug/L	0.5
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	PCB 1248	AA	ug/L	0.5
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	PCB 1254	AA	ug/L	0.5
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	PCB 1260	AA	ug/L	0.5
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	Surr: Decachlorobiphenyl	0.809	%	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$PEST	Surr: Tetrachloro-m-xylene	0.889	%	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624	Chloromethane	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624	Vinyl Chloride	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		Bromomethane	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		Chloroethane	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		Acrolein	0	ug/L	100.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		Acrylonitrile	0	ug/L	100.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		Methylene Chloride	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		Chloroform	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		1,2-Dichloroethane-d4	44.7	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		Benzene	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		Trichloroethene	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		Bromodichloromethane	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		Dibromochloromethane	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		Bromoform	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		Tetrachloroethene	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		Toluene	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		Toluene-d8	54.0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		Chlorobenzene	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		Ethylbenzene	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		Bromofluorobenzene	93.8	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		2-Propanone	0	ug/L	60
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		2-Butanone	0	ug/L	60
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		Tetrahydrofuran	0	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		2-chloroethoxy ethene	0	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$624		TOTAL AMOUNT	343	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		pyridine	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		2-Fluorophenol	31.1	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		aniline	12.5	ug/L	6.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Phenol-d6	21.4	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Phenol	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		2-Chlorophenol	0	ug/L	6.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		n-decane	0	ug/L	6.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		o-cresol	0	ug/L	6.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		acetophenone	0	ug/L	6.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Hexachloroethane	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Nitrobenzene-d5	54.1	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		p-cresol	0	ug/L	6.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Nitrobenzene	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Isophorone	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Decafluorobiphenyl	57.7	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		2-Nitrophenol	0	ug/L	6.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		2,4-Dichlorophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Naphthalene	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		1-Fluoronaphthalene	49.6	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		alpha terpineol	0	ug/L	6.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Acenaphthylene	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Acenaphthene	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		4-Nitrophenol	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Diethyl phthalate	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Fluorene	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		2,4,6-Tribromophenol	74.2	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Pentachlorophenol	0	ug/L	6.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		n-octadecane	0	ug/L	6.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Phenanthrene	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Anthracene	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		carbazole	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Fluoranthene	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Benzidine	0	ug/L	6.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Pyrene	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Chrysene	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Perylene-D12	50.0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Hexachloroethane	0	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		2,3-Dichloroaniline	0	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Diethylphthalate	0	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Benzo[ghi]perylene	0	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		1-Isopropyl-2,2-dimethylpropylideneami T	1	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		2-Hexene, 3,5,5-trimethyl- T	6	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		2-Hexene, 3,5,5-trimethyl- T2	2	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	3	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Cyclohexanol T	7	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		2-Butenal, 3-methyl- T	2	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Pentane, 2,3,4-trimethyl- T	1	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Pentane, 2,3,4-trimethyl- T2	7	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		1-Heptene, 4-methyl- T	3	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Hexane, 3,3,4-trimethyl- T	1	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Benzene, isocyanato- T	2	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		Triphenylphosphine oxide T	4	ug/L	
AC07823	LM29	Little Miami Watershed	29	10/1/2012	11:40	\$625		TOTAL AMOUNT	640	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		MF_CF	Fecal Coliform, Membrane Filter	86	CFU/100mL	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		E-COLI	E.coli (Colilert)	108	MPN	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		TDS	Total Dissolved Solids	160	mg/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		SO4	Sulfate	24.7	mg/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		CL	Chloride	22.2	mg/L	1.00
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		TSS	Tot. Suspended Solids	10	mg/L	2
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		SSC	Suspended Sediment Concentration	6.4	mg/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		HARD	Hardness as CaCO3	184	mg/l	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		COD	COD	5	mg/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	262	uS/cm	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		TEMP_FLD	Temperature (Field) Celsius	17.79	Deg C	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		PH_FLD	pH (Field)	7.65	S.U.	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		DO_FLD	Dissolved Oxygen (field) mg/L	8.00	mg/l	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		CONDUCTIVITY	Specific Conductivity (uS/cm)	304	uS/cm	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		\$ICP	Aluminum	0.00	mg/L	0.348
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		\$ICP	Antimony	0.00	mg/L	0.006
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		\$ICP	Arsenic	0.00	mg/L	0.012
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		\$ICP	Barium	0.0272	mg/L	0.003
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		\$ICP	Beryllium	0.00	mg/L	0.009
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		\$ICP	Cadmium	0.00	mg/L	0.012
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		\$ICP	Calcium	43.8	mg/L	0.066
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		\$ICP	Chromium	0.00	mg/L	0.006
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		\$ICP	Cobalt	0.00	mg/L	0.006
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		\$ICP	Copper	0.00	mg/L	0.006
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50		\$ICP	Iron	0.346	mg/L	0.018

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$ICP	Lead	0.00	mg/L	0.006
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$ICP	Magnesium	10.3	mg/L	0.021
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$ICP	Manganese	0.0604	mg/L	0.009
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$ICP	Nickel	0.00	mg/L	0.003
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$ICP	Selenium	0.00	mg/L	0.009
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$ICP	Silver	0.00	mg/L	0.003
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$ICP	Strontium	0.129	mg/L	0.009
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$ICP	Thallium	0.00	mg/L	0.012
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$ICP	Tin	0.00	mg/L	0.006
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$ICP	Zinc	0.00	mg/L	0.006
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	PB_FU	Lead by Furnace	0.32	ug/L	1.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	AS_FU	Arsenic by Furnace	1.70	ug/L	1.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	CU_FU	Copper by Furnace	1.8	ug/L	1
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	NH3	Ammonia as N	0	mg/L	0.5
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	NO3NO2	Nitrate + Nitrite	2.27	mg/L	0.5
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	TKN	Total Kjeldahl Nitrogen	0.9069	mg/L	0.5
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	NO2	Nitrite as N	0.0176	mg/l	0.005
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	NO3	Nitrate as N (calculated)	2.2524	mg/l	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	Aldrin	AA	ug/L	0.02
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	Chlordane	AA	ug/L	0.10
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	Dieldrin	AA	ug/L	0.02
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	Endosulfan I	AA	ug/L	0.05



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	Endrin	AA	ug/L	0.02
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	Heptachlor	AA	ug/L	0.02
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	Toxaphene	AA	ug/L	1.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	PCB 1016	AA	ug/L	0.5
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	PCB 1221	AA	ug/L	0.5
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	PCB 1232	AA	ug/L	0.5
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	PCB 1242	AA	ug/L	0.5
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	PCB 1248	AA	ug/L	0.5
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	PCB 1254	AA	ug/L	0.5
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	PCB 1260	AA	ug/L	0.5
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	Surr: Decachlorobiphenyl	0.795	%	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$PEST	Surr: Tetrachloro-m-xylene	0.935	%	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624	Chloromethane	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624	Vinyl Chloride	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624	Bromomethane	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624	Chloroethane	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624	Acrolein	0	ug/L	100.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624	Acrylonitrile	0	ug/L	100.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624	Methylene Chloride	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624	Chloroform	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624	1,2-Dichloroethane-d4	46.2	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624	1,1,1-Trichloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		Benzene	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		Trichloroethene	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		Bromodichloromethane	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		Dibromochloromethane	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		Bromoform	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		Tetrachloroethene	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		Toluene	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		Toluene-d8	54.5	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		Chlorobenzene	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		Ethylbenzene	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		Bromofluorobenzene	90.2	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		2-Propanone	0	ug/L	60
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		2-Butanone	0	ug/L	60
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		Tetrahydrofuran	0	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		2-chloroethoxy ethene	0	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$624		TOTAL AMOUNT	341	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		pyridine	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		2-Fluorophenol	35.8	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		aniline	0	ug/L	6.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Phenol-d6	25.2	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Phenol	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		2-Chlorophenol	0	ug/L	6.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		n-decane	0	ug/L	6.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		o-cresol	0	ug/L	6.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		acetophenone	0	ug/L	6.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Hexachloroethane	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Nitrobenzene-d5	66.4	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		p-cresol	0	ug/L	6.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Nitrobenzene	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Isophorone	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Decafluorobiphenyl	71.7	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		2-Nitrophenol	0	ug/L	6.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Naphthalene	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		1-Fluoronaphthalene	59.9	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		alpha terpineol	0	ug/L	6.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Acenaphthylene	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		2,6-Dinitrotoluene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Acenaphthene	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		4-Nitrophenol	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Diethyl phthalate	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Fluorene	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		2,4,6-Tribromophenol	77.1	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Pentachlorophenol	0	ug/L	6.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		n-octadecane	0	ug/L	6.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Phenanthrene	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Anthracene	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		carbazole	0	ug/L	6.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Fluoranthene	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Benzidine	0	ug/L	6.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Pyrene	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Chrysene	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Perylene-D12	50.0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Benzo(k)fluoranthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Hexachloroethane	0	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		2,3-Dichloroaniline	0	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Diethylphthalate	0	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Benzo[ghi]perylene	0	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		2-Pentene, 4-methyl-, (Z)- T	2	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		1-Isopropyl-2,2-dimethylpropylideneami T	2	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		2-Hexene, 2,5,5-trimethyl- T	6	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		2-Hexene, 3,5,5-trimethyl- T	2	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		2,6-Dimethyl-6-nitro-2-hepten-4-one T	1	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	7	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	2	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Undecane, 3,3-dimethyl- T	1	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Decane, 3,3,4-trimethyl- T	7	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		1-Hexene, 4,5-dimethyl- T	4	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Hexane, 3,3,4-trimethyl- T	2	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		Formylmethylenetriphenylphosphorane T	3	ug/L	
AC07824	LM30	Little Miami Watershed	30	10/1/2012	11:50	\$625		TOTAL AMOUNT	675	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20		MF_CF	Fecal Coliform, Membrane Filter	86	CFU/100mL	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20		E-COLI	E.coli (Colilert)	96	MPN	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20		TDS	Total Dissolved Solids	160	mg/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20		SO4	Sulfate	26.9	mg/L	1.00
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20		CL	Chloride	23.0	mg/L	1.00
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20		TSS	Tot. Suspended Solids	6	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	SSC	Suspended Sediment Concentration	13.9	mg/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	HARD	Hardness as CaCO3	214	mg/l	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	COD	COD	25	mg/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	299	uS/cm	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	TEMP_FLD	Temperature (Field) Celsius	18.09	Deg C	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	PH_FLD	pH (Field)	7.83	S.U.	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	DO_FLD	Dissolved Oxygen (field) mg/L	8.56	mg/l	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	345	uS/cm	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$ICP	Aluminum	0.00	mg/L	0.348
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$ICP	Antimony	0.00	mg/L	0.006
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$ICP	Arsenic	0.00	mg/L	0.012
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$ICP	Barium	0.0294	mg/L	0.003
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$ICP	Beryllium	0.00	mg/L	0.009
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$ICP	Cadmium	0.00	mg/L	0.012
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$ICP	Calcium	49.0	mg/L	0.066
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$ICP	Chromium	0.00	mg/L	0.006
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$ICP	Cobalt	0.00	mg/L	0.006
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$ICP	Copper	0.00	mg/L	0.006
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$ICP	Iron	0.363	mg/L	0.018
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$ICP	Lead	0.00	mg/L	0.006
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$ICP	Magnesium	11.2	mg/L	0.021
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$ICP	Manganese	0.0490	mg/L	0.009
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$ICP	Nickel	0.00	mg/L	0.003
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$ICP	Selenium	0.0110	mg/L	0.009
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$ICP	Silver	0.00	mg/L	0.003
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$ICP	Strontium	0.148	mg/L	0.009
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$ICP	Thallium	0.00	mg/L	0.012
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$ICP	Tin	0.00	mg/L	0.006
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$ICP	Vanadium	0.00	mg/L	0.018
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$ICP	Zinc	0.00651	mg/L	0.006
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	PB_FU	Lead by Furnace	0.36	ug/L	1.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	AS_FU	Arsenic by Furnace	1.60	ug/L	1.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	CD_FU	Cadmium by Furnace	AA	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	CU_FU	Copper by Furnace	1.9	ug/L	1
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	NH3	Ammonia as N	0	mg/L	0.5
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	NO3NO2	Nitrate + Nitrite	1.79	mg/L	0.5
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	TKN	Total Kjeldahl Nitrogen	0.6903	mg/L	0.5
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	NO2	Nitrite as N	0.0205	mg/l	0.005
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	NO3	Nitrate as N (calculated)	1.7695	mg/l	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	Aldrin	AA	ug/L	0.02
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	Chlordane	AA	ug/L	0.10
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	Dieldrin	AA	ug/L	0.02
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	Endrin	AA	ug/L	0.02
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	Heptachlor	AA	ug/L	0.02
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	Toxaphene	AA	ug/L	1.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	PCB 1016	AA	ug/L	0.5
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	PCB 1221	AA	ug/L	0.5
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	PCB 1232	AA	ug/L	0.5
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	PCB 1242	AA	ug/L	0.5
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	PCB 1248	AA	ug/L	0.5
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	PCB 1254	AA	ug/L	0.5
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	PCB 1260	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	Surr: Decachlorobiphenyl	0.871	%	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$PEST	Surr: Tetrachloro-m-xylene	0.899	%	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	Chloromethane	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	Vinyl Chloride	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	Bromomethane	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	Chloroethane	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	Acrolein	0	ug/L	100.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	Acrylonitrile	0	ug/L	100.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	Methylene Chloride	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	Chloroform	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	1,2-Dichloroethane-d4	46.2	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	Benzene	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	Trichloroethene	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	Bromodichloromethane	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	Dibromochloromethane	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	Bromoform	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	Tetrachloroethene	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624		Toluene	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624		Toluene-d8	53.3	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624		Chlorobenzene	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624		Ethylbenzene	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624		Bromofluorobenzene	91.2	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624		2-Propanone	0	ug/L	60
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624		2-Butanone	0	ug/L	60
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624		Tetrahydrofuran	0	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624		2-chloroethoxy ethene	0	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$624		TOTAL AMOUNT	341	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		pyridine	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		2-Fluorophenol	50.4	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		aniline	0	ug/L	6.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Phenol-d6	34.1	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Phenol	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		2-Chlorophenol	0	ug/L	6.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		n-decane	0	ug/L	6.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		o-cresol	0	ug/L	6.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		acetophenone	0	ug/L	6.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Hexachloroethane	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Nitrobenzene-d5	85.0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		p-cresol	0	ug/L	6.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Nitrobenzene	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Isophorone	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Decafluorobiphenyl	93.4	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		2-Nitrophenol	0	ug/L	6.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Naphthalene	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		1-Fluoronaphthalene	79.5	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		alpha terpineol	0	ug/L	6.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Acenaphthylene	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Acenaphthene	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		4-Nitrophenol	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Diethyl phthalate	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Fluorene	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		2,4,6-Tribromophenol	91.3	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Hexachlorobenzene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Pentachlorophenol	0	ug/L	6.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		n-octadecane	0	ug/L	6.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Phenanthrene	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Anthracene	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		carbazole	0	ug/L	6.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Fluoranthene	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Benzidine	0	ug/L	6.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Pyrene	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Chrysene	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Perylene-D12	50.0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Hexachloroethane	0	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		2,3-Dichloroaniline	0	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Diethylphthalate	0	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Benzo[ghi]perylene	0	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		2-Pentene, 4-methyl-, (E)- T	3	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Hexane, 1-(hexyloxy)-4-methyl- T	2	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		2-Hexene, 3,5,5-trimethyl- T	7	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		2-Hexene, 2,5,5-trimethyl- T	2	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	11	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Cyclohexanol T	7	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		2-Butenal, 3-methyl- T	3	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Pentane, 2,3,4-trimethyl- T	2	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Decane, 3,3,4-trimethyl- T	11	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Octane, 3-methyl-6-methylene- T	5	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Pentane, 2,3,4-trimethyl- T2	2	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		Triphenylphosphine oxide T	3	ug/L	
AC07825	LM31	Little Miami Watershed	31	10/1/2012	12:20	\$625		TOTAL AMOUNT	792	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15		MF_CF	Fecal Coliform, Membrane Filter	430	CFU/100mL	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15		E-COLI	E.coli (Colilert)	548	MPN	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15		TDS	Total Dissolved Solids	400	mg/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15		SO4	Sulfate	49.2	mg/L	12.5
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15		CL	Chloride	125	mg/L	2.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15		TSS	Tot. Suspended Solids	12	mg/L	2
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15		SSC	Suspended Sediment Concentration	16.2	mg/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15		HARD	Hardness as CaCO3	306	mg/l	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15		COD	COD	15	mg/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	657	uS/cm	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15		TEMP_FLD	Temperature (Field) Celsius	17.27	Deg C	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15		PH_FLD	pH (Field)	8.43	S.U.	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15		DO_FLD	Dissolved Oxygen (field) mg/L	11.50	mg/l	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15		CONDUCTIVITY	Specific Conductivity (uS/cm)	771	uS/cm	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15		NH3	Ammonia as N	0	mg/L	0.5
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15		NO3NO2	Nitrate + Nitrite	2.18	mg/L	0.5
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15		TKN	Total Kjeldahl Nitrogen	0.6248	mg/L	0.5
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15		TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15		NO2	Nitrite as N	0.0148	mg/l	0.005
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15		NO3	Nitrate as N (calculated)	2.1652	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	CHLOROPHYLL	Chlorophyll	7.71	mg/m3	1.00
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	Aldrin	AA	ug/L	0.02
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	Chlordane	AA	ug/L	0.10
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	Dieldrin	AA	ug/L	0.02
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	Endrin	AA	ug/L	0.02
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	Heptachlor	AA	ug/L	0.02
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	Toxaphene	AA	ug/L	1.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	PCB 1016	AA	ug/L	0.5
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	PCB 1221	AA	ug/L	0.5
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	PCB 1232	AA	ug/L	0.5
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	PCB 1242	AA	ug/L	0.5
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	PCB 1248	AA	ug/L	0.5
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	PCB 1254	AA	ug/L	0.5
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	PCB 1260	AA	ug/L	0.5
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	Surr: Decachlorobiphenyl	0.969	%	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$PEST	Surr: Tetrachloro-m-xylene	0.983	%	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624	Chloromethane	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624	Vinyl Chloride	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624	Bromomethane	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624	Chloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		Acrolein	0	ug/L	100.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		Acrylonitrile	0	ug/L	100.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		Methylene Chloride	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		Chloroform	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		1,2-Dichloroethane-d4	45.6	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		Benzene	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		Trichloroethene	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		Bromodichloromethane	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		Dibromochloromethane	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		Bromoform	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		Tetrachloroethene	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		Toluene	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		Toluene-d8	51.9	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		Chlorobenzene	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		Ethylbenzene	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		Bromofluorobenzene	87.9	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		1,4-Dichlorobenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		2-Propanone	0	ug/L	60
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		2-Butanone	0	ug/L	60
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		Tetrahydrofuran	0	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		2-chloroethoxy ethene	0	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$624		TOTAL AMOUNT	335	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		pyridine	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		2-Fluorophenol	45.2	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		aniline	0	ug/L	6.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Phenol-d6	31.2	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Phenol	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		2-Chlorophenol	0	ug/L	6.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		n-decane	0	ug/L	6.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		o-cresol	0	ug/L	6.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		acetophenone	0	ug/L	6.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Hexachloroethane	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Nitrobenzene-d5	77.6	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		p-cresol	0	ug/L	6.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Nitrobenzene	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Isophorone	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Decafluorobiphenyl	90.8	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		2-Nitrophenol	0	ug/L	6.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Naphthalene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		1-Fluoronaphthalene	80.5	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		alpha terpineol	0	ug/L	6.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Acenaphthylene	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Acenaphthene	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		4-Nitrophenol	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Diethyl phthalate	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Fluorene	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		2,4,6-Tribromophenol	77.5	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Pentachlorophenol	0	ug/L	6.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		n-octadecane	0	ug/L	6.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Phenanthrene	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Anthracene	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		carbazole	0	ug/L	6.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Fluoranthene	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Benzidine	0	ug/L	6.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Pyrene	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Chrysene	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Perylene-D12	50.0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Hexachloroethane	0	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		2,3-Dichloroaniline	0	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Diethylphthalate	0	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Benzo[ghi]perylene	0	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		2,5-Cyclohexadien-1-one, 3,5-dihydroxy T	2	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		2-Hexene, 2,5,5-trimethyl- T	8	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		2-Hexene, 3,5,5-trimethyl- T	2	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	7	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Cyclopentanone, 2-ethyl- T	3	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Pentane, 2,3,4-trimethyl- T	9	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		1-Octene, 3-ethyl- T	5	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Ethanone, 1-(2,2-dimethylcyclopentyl)- T	2	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Triphenylphosphine oxide T	4	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		2(1H)-Pyridinone, 1,4,5-triphenyl- T	19	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		1-(Benzothiazol-2-yl)-3,4-dimethyl-pyr T	11	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		Pyrimidine, 2-(2-hydroxyphenyl)-4-pipe T	206	ug/L	
AC07869	LM01	Little Miami Watershed	1	10/2/2012	09:15	\$625		TOTAL AMOUNT	980	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		MF_CF	Fecal Coliform, Membrane Filter	1300	CFU/100mL	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		E-COLI	E.coli (Colilert)	1733	MPN	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		TDS	Total Dissolved Solids	380	mg/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		SO4	Sulfate	69.5	mg/L	12.5
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		CL	Chloride	75.0	mg/L	1.00
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		TSS	Tot. Suspended Solids	16	mg/L	2
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		SSC	Suspended Sediment Concentration	18.3	mg/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		HARD	Hardness as CaCO3	244	mg/l	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		COD	COD	26	mg/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	553	uS/cm	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		TEMP_FLD	Temperature (Field) Celsius	16.18	Deg C	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		PH_FLD	pH (Field)	7.86	S.U.	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		DO_FLD	Dissolved Oxygen (field) mg/L	10.08	mg/l	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		CONDUCTIVITY	Specific Conductivity (uS/cm)	666	uS/cm	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		\$ICP	Aluminum	0.385	mg/L	0.348
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		\$ICP	Antimony	0.00	mg/L	0.006
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		\$ICP	Arsenic	0.00	mg/L	0.012
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		\$ICP	Barium	0.0308	mg/L	0.003
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		\$ICP	Beryllium	0.00	mg/L	0.009
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		\$ICP	Cadmium	0.00	mg/L	0.012
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		\$ICP	Calcium	61.1	mg/L	0.066
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		\$ICP	Chromium	0.00	mg/L	0.006
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		\$ICP	Cobalt	0.00	mg/L	0.006
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		\$ICP	Copper	0.00675	mg/L	0.006
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		\$ICP	Iron	0.621	mg/L	0.018
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		\$ICP	Lead	0.00	mg/L	0.006
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40		\$ICP	Magnesium	14.5	mg/L	0.021

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$ICP	Manganese	0.0516	mg/L	0.009
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$ICP	Nickel	0.00	mg/L	0.003
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$ICP	Selenium	0.0184	mg/L	0.009
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$ICP	Silver	0.00	mg/L	0.003
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$ICP	Strontium	0.240	mg/L	0.009
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$ICP	Thallium	0.0232	mg/L	0.012
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$ICP	Tin	0.00	mg/L	0.006
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$ICP	Zinc	0.0198	mg/L	0.006
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	PB_FU	Lead by Furnace	0.59	ug/L	1.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	AS_FU	Arsenic by Furnace	1.42	ug/L	1.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	CU_FU	Copper by Furnace	8.0	ug/L	1
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	NH3	Ammonia as N	0	mg/L	0.5
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	NO3NO2	Nitrate + Nitrite	9.65	mg/L	0.5
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	TKP	Total Kjeldahl Phosphorus	1.311	mg/L	0.5
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	NO2	Nitrite as N	0.0377	mg/l	0.005
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	NO3	Nitrate as N (calculated)	9.6123	mg/l	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	CHLOROPHYLL	Chlorophyll	4.27	mg/m3	1.00
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	Aldrin	AA	ug/L	0.02
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	Chlordane	AA	ug/L	0.10
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	Dieldrin	AA	ug/L	0.02
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	Endosulfan sulfate	AA	ug/L	0.05

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	Endrin	AA	ug/L	0.02
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	Heptachlor	AA	ug/L	0.02
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	Toxaphene	AA	ug/L	1.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	PCB 1016	AA	ug/L	0.5
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	PCB 1221	AA	ug/L	0.5
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	PCB 1232	AA	ug/L	0.5
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	PCB 1242	AA	ug/L	0.5
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	PCB 1248	AA	ug/L	0.5
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	PCB 1254	AA	ug/L	0.5
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	PCB 1260	AA	ug/L	0.5
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	Surr: Decachlorobiphenyl	0.936	%	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$PEST	Surr: Tetrachloro-m-xylene	0.975	%	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Chloromethane	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Vinyl Chloride	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Bromomethane	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Chloroethane	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Acrolein	0	ug/L	100.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Acrylonitrile	0	ug/L	100.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Methylene Chloride	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Chloroform	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	1,2-Dichloroethane-d4	45.9	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Benzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Trichloroethene	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Bromodichloromethane	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Dibromochloromethane	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Bromoform	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Tetrachloroethene	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Toluene	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Toluene-d8	51.9	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Chlorobenzene	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Ethylbenzene	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Bromofluorobenzene	91.4	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	2-Propanone	0	ug/L	60
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	2-Butanone	0	ug/L	60
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	Tetrahydrofuran	0	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	2-chloroethoxy ethene	0	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$624	TOTAL AMOUNT	339	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	pyridine	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	2-Fluorophenol	36.2	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	aniline	0	ug/L	6.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Phenol-d6	26.1	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Phenol	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	2-Chlorophenol	0	ug/L	6.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	n-decane	0	ug/L	6.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	o-cresol	0	ug/L	6.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	acetophenone	0	ug/L	6.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Hexachloroethane	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Nitrobenzene-d5	59.3	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	p-cresol	0	ug/L	6.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Nitrobenzene	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Isophorone	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Decafluorobiphenyl	48.5	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	2-Nitrophenol	0	ug/L	6.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Naphthalene	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	1-Fluoronaphthalene	51.1	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	alpha terpineol	0	ug/L	6.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Acenaphthylene	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Acenaphthene	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	2,4-Dinitrophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	4-Nitrophenol	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Diethyl phthalate	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Fluorene	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	2,4,6-Tribromophenol	81.1	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Pentachlorophenol	0	ug/L	6.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	n-octadecane	0	ug/L	6.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Phenanthrene	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Anthracene	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	carbazole	0	ug/L	6.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Fluoranthene	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Benzidine	0	ug/L	6.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Pyrene	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Chrysene	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Perylene-D12	50.0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Hexachloroethane	0	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	2,3-Dichloroaniline	0	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Diethylphthalate	0	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Benzo[ghi]perylene	0	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	6,6-Dimethyl-cyclohex-2-en-1-ol T	2	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	2-Hexene, 2,5,5-trimethyl- T	6	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	1-(1-Methyl-cyclopentyl)-ethanone T	2	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	4	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Hexane, 3-methyl-4-methylene- T	3	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	2-Butenal, 3-methyl- T	8	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	m-Menthane, (1S,3R)-(+)- T	2	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	2,4,4-Trimethyl-1-hexene T	3	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Pentane, 2,3,4-trimethyl- T	20	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Octane, 3-methyl-6-methylene- T	6	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Decane, 3,3,4-trimethyl- T	3	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	Triphenylphosphine oxide T	3	ug/L	
AC07870	LM38	Little Miami Watershed	38	10/2/2012	09:40	\$625	TOTAL AMOUNT	665	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	1133	CFU/100mL	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	E-COLI	E.coli (Colilert)	1120	MPN	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	TDS	Total Dissolved Solids	330	mg/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	SO4	Sulfate	61.5	mg/L	12.5
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	CL	Chloride	57.8	mg/L	1.00
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	TSS	Tot. Suspended Solids	12	mg/L	2
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	SSC	Suspended Sediment Concentration	7.7	mg/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	HARD	Hardness as CaCO3	254	mg/l	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	COD	COD	22	mg/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	432	uS/cm	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	16.25	Deg C	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	PH_FLD	pH (Field)	7.90	S.U.	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	11.18	mg/l	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	520	uS/cm	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$ICP	Antimony	0.00	mg/L	0.006
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$ICP	Barium	0.0288	mg/L	0.003
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$ICP	Calcium	60.5	mg/L	0.066
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$ICP	Chromium	0.00	mg/L	0.006
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$ICP	Copper	0.00	mg/L	0.006
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$ICP	Iron	0.256	mg/L	0.018
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$ICP	Lead	0.00	mg/L	0.006
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$ICP	Magnesium	14.5	mg/L	0.021
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$ICP	Manganese	0.0187	mg/L	0.009
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$ICP	Nickel	0.00	mg/L	0.003
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$ICP	Selenium	0.0199	mg/L	0.009
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$ICP	Silver	0.00	mg/L	0.003
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$ICP	Strontium	0.230	mg/L	0.009
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$ICP	Thallium	0.0349	mg/L	0.012
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$ICP	Tin	0.00	mg/L	0.006
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$ICP	Zinc	0.0119	mg/L	0.006
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	PB_FU	Lead by Furnace	0.23	ug/L	1.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	AS_FU	Arsenic by Furnace	1.08	ug/L	1.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	CU_FU	Copper by Furnace	6.5	ug/L	1
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	NO3NO2	Nitrate + Nitrite	5.49	mg/L	0.5
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	TKP	Total Kjeldahl Phosphorus	0.8105	mg/L	0.5
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	NO2	Nitrite as N	0.0220	mg/l	0.005
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	NO3	Nitrate as N (calculated)	5.4680	mg/l	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	Aldrin	AA	ug/L	0.02
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	Chlordane	AA	ug/L	0.10
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	Endrin	AA	ug/L	0.02
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	Toxaphene	AA	ug/L	1.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	Surr: Decachlorobiphenyl	0.928	%	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$PEST	Surr: Tetrachloro-m-xylene	0.903	%	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		Bromochloromethane	50.0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		Chloromethane	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		Vinyl Chloride	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		Bromomethane	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		Chloroethane	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		Acrolein	0	ug/L	100.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		Acrylonitrile	0	ug/L	100.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		Methylene Chloride	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		Chloroform	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		1,2-Dichloroethane-d4	44.6	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		Benzene	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		Trichloroethene	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		Bromodichloromethane	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		Bromoform	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		Toluene	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624		Toluene-d8	51.5	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624	Chlorobenzene	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624	Ethylbenzene	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624	Bromofluorobenzene	84.3	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624	2-Propanone	0	ug/L	60
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624	2-Butanone	0	ug/L	60
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624	Tetrahydrofuran	0	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624	2-chloroethoxy ethene	0	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$624	TOTAL AMOUNT	330	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625	pyridine	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625	2-Fluorophenol	17.2	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625	aniline	0	ug/L	6.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625	Phenol-d6	14.5	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625	Phenol	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625	2-Chlorophenol	0	ug/L	6.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625	n-decane	0	ug/L	6.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625	o-cresol	0	ug/L	6.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625	acetophenone	0	ug/L	6.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625	Hexachloroethane	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625	Nitrobenzene-d5	37.4	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625	p-cresol	0	ug/L	6.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625	Nitrobenzene	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625	Isophorone	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625	Decafluorobiphenyl	32.7	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625	2-Nitrophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Naphthalene	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		1-Fluoronaphthalene	32.9	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		alpha terpineol	0	ug/L	6.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Acenaphthylene	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Acenaphthene	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		4-Nitrophenol	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Diethyl phthalate	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Fluorene	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		2,4,6-Tribromophenol	56.6	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Pentachlorophenol	0	ug/L	6.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		n-octadecane	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Phenanthrene	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Anthracene	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		carbazole	0	ug/L	6.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Fluoranthene	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Benzidine	0	ug/L	6.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Pyrene	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Chrysene	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Perylene-D12	50.0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Hexachloroethane	0	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		2,3-Dichloroaniline	0	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Diethylphthalate	0	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Benzo[ghi]perylene	0	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		2-Pentene, 2-methyl- T	3	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		2-Hexene, 2,5,5-trimethyl- T	3	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		3-Penten-2-one, (E)- T	2	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Hexane, 3-methyl-4-methylene- T	2	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	4	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Ethane, 1,1,2,2-tetrachloro- T	2	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Pentane, 2,3,4-trimethyl- T	2	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Pentane, 2,3,4-trimethyl- T2	10	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Octane, 3-methyl-6-methylene- T	3	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Pentane, 2,3,4-trimethyl- T3	2	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Hexanoic acid, 1,2,3-propanetriyl este T	13	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		Triphenylphosphine oxide T	3	ug/L	
AC07871	LM37	Little Miami Watershed	37	10/2/2012	10:00	\$625		TOTAL AMOUNT	540	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15		MF_CF	Fecal Coliform, Membrane Filter	700	CFU/100mL	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15		E-COLI	E.coli (Colilert)	1203	MPN	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15		TDS	Total Dissolved Solids	430	mg/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15		SO4	Sulfate	45.8	mg/L	12.5
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15		CL	Chloride	104	mg/L	1.00
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15		TSS	Tot. Suspended Solids	12	mg/L	2
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15		SSC	Suspended Sediment Concentration	15.6	mg/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15		HARD	Hardness as CaCO3	312	mg/l	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15		COD	COD	6	mg/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	638	uS/cm	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15		TEMP_FLD	Temperature (Field) Celsius	17.14	Deg C	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15		PH_FLD	pH (Field)	8.43	S.U.	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15		DO_FLD	Dissolved Oxygen (field) mg/L	11.45	mg/l	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15		CONDUCTIVITY	Specific Conductivity (uS/cm)	751	uS/cm	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15		NH3	Ammonia as N	0	mg/L	0.5
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15		NO3NO2	Nitrate + Nitrite	2.09	mg/L	0.5
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15		TKN	Total Kjeldahl Nitrogen	0.6570	mg/L	0.5
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15		TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15		NO2	Nitrite as N	0.0206	mg/l	0.005
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15		NO3	Nitrate as N (calculated)	2.0694	mg/l	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15		CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15		\$PEST	Aldrin	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	Chlordane	AA	ug/L	0.10
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	Dieldrin	AA	ug/L	0.02
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	Endrin	AA	ug/L	0.02
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	Heptachlor	AA	ug/L	0.02
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	Toxaphene	AA	ug/L	1.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	PCB 1016	AA	ug/L	0.5
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	PCB 1221	AA	ug/L	0.5
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	PCB 1232	AA	ug/L	0.5
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	PCB 1242	AA	ug/L	0.5
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	PCB 1248	AA	ug/L	0.5
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	PCB 1254	AA	ug/L	0.5
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	PCB 1260	AA	ug/L	0.5
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	Surr: Decachlorobiphenyl	0.987	%	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$PEST	Surr: Tetrachloro-m-xylene	0.981	%	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624	Chloromethane	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624	Vinyl Chloride	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624	Bromomethane	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624	Chloroethane	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624	Acrolein	0	ug/L	100.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		Acrylonitrile	0	ug/L	100.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		Methylene Chloride	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		Chloroform	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		1,2-Dichloroethane-d4	45.6	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		Benzene	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		Trichloroethene	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		Bromodichloromethane	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		Dibromochloromethane	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		Bromoform	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		Tetrachloroethene	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		Toluene	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		Toluene-d8	53.7	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		Chlorobenzene	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		Ethylbenzene	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		Bromofluorobenzene	91.4	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624		2-Propanone	0	ug/L	60

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624	2-Butanone	0	ug/L	60
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624	Tetrahydrofuran	0	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624	2-chloroethoxy ethene	0	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$624	TOTAL AMOUNT	341	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	pyridine	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	2-Fluorophenol	37.6	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	aniline	0	ug/L	6.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Phenol-d6	28.9	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Phenol	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	2-Chlorophenol	0	ug/L	6.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	n-decane	0	ug/L	6.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	o-cresol	0	ug/L	6.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	acetophenone	0	ug/L	6.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Hexachloroethane	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Nitrobenzene-d5	63.2	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	p-cresol	0	ug/L	6.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Nitrobenzene	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Isophorone	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Decafluorobiphenyl	57.1	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	2-Nitrophenol	0	ug/L	6.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Naphthalene	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	1-Fluoronaphthalene	56.2	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	alpha terpineol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Acenaphthylene	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Acenaphthene	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	4-Nitrophenol	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Diethyl phthalate	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Fluorene	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	2,4,6-Tribromophenol	74.5	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Pentachlorophenol	0	ug/L	6.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	n-octadecane	0	ug/L	6.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Phenanthrene	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Anthracene	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	carbazole	0	ug/L	6.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Fluoranthene	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Benzidine	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Pyrene	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Chrysene	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Perylene-D12	50.0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Hexachloroethane	0	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	2,3-Dichloroaniline	0	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Diethylphthalate	0	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Benzo[ghi]perylene	0	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Hexane, 1-(hexyloxy)-4-methyl- T	2	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	2-Hexene, 2,5,5-trimethyl- T	6	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	1-Silacyclo-3-pentene T	2	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	8	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	2-Pentene, 3-ethyl-2-methyl- T	3	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	7	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Ethane, 1,1,2,2-tetrachloro- T	2	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Carbonic acid, dipentyl ester T	3	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Pentane, 2,3,4-trimethyl- T	17	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	1-Octene, 3-ethyl- T	5	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Pentane, 2,3,4-trimethyl- T2	3	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	Triphenylphosphine oxide T	3	ug/L	
AC07872	LM03	Little Miami Watershed	3	10/2/2012	10:15	\$625	TOTAL AMOUNT	681	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	MF_CF	Fecal Coliform, Membrane Filter	79	CFU/100mL	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	E-COLI	E.coli (Colilert)	27	MPN	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	TDS	Total Dissolved Solids	630	mg/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	SO4	Sulfate	106	mg/L	25.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	CL	Chloride	350	mg/L	4.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	TSS	Tot. Suspended Solids	14	mg/L	2
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	SSC	Suspended Sediment Concentration	5.5	mg/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	HARD	Hardness as CaCO3	296	mg/l	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	COD	COD	27	mg/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1020	uS/cm	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	TEMP_FLD	Temperature (Field) Celsius	21.56	Deg C	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	PH_FLD	pH (Field)	7.30	S.U.	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	DO_FLD	Dissolved Oxygen (field) mg/L	9.44	mg/l	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	1092	uS/cm	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	NH3	Ammonia as N	0	mg/L	0.5
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	NO3NO2	Nitrate + Nitrite	11.2	mg/L	0.5
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	TKN	Total Kjeldahl Nitrogen	2.071	mg/L	0.5
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	TKP	Total Kjeldahl Phosphorus	2.673	mg/L	0.5
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	NO2	Nitrite as N	0.2067	mg/l	0.005
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	NO3	Nitrate as N (calculated)	10.9933	mg/l	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	Aldrin	AA	ug/L	0.02
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	Chlordane	AA	ug/L	0.10
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	4,4-DDT	AA	ug/L	0.03

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	Dieldrin	AA	ug/L	0.02
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	Endrin	AA	ug/L	0.02
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	Heptachlor	AA	ug/L	0.02
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	Toxaphene	AA	ug/L	1.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	PCB 1016	AA	ug/L	0.5
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	PCB 1221	AA	ug/L	0.5
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	PCB 1232	AA	ug/L	0.5
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	PCB 1242	AA	ug/L	0.5
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	PCB 1248	AA	ug/L	0.5
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	PCB 1254	AA	ug/L	0.5
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	PCB 1260	AA	ug/L	0.5
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	Surr: Decachlorobiphenyl	0.818	%	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$PEST	Surr: Tetrachloro-m-xylene	0.948	%	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Chloromethane	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Vinyl Chloride	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Bromomethane	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Chloroethane	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Acrolein	0	ug/L	100.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Acrylonitrile	0	ug/L	100.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Methylene Chloride	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Chloroform	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	1,2-Dichloroethane-d4	41.1	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Benzene	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Trichloroethene	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Bromodichloromethane	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Dibromochloromethane	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Bromoform	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Tetrachloroethene	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Toluene	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Toluene-d8	59.2	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Chlorobenzene	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Ethylbenzene	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Bromofluorobenzene	80.1	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	2-Propanone	0	ug/L	60
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	2-Butanone	0	ug/L	60
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	Tetrahydrofuran	0	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	2-chloroethoxy ethene	0	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$624	TOTAL AMOUNT	330	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625	pyridine	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625	n-nitrosodimethylamine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		2-Fluorophenol	29.6	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		aniline	0	ug/L	6.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Phenol-d6	21.0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Phenol	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		2-Chlorophenol	0	ug/L	6.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		n-decane	0	ug/L	6.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		o-cresol	0	ug/L	6.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		acetophenone	0	ug/L	6.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Hexachloroethane	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Nitrobenzene-d5	56.2	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		p-cresol	0	ug/L	6.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Nitrobenzene	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Isophorone	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Decafluorobiphenyl	48.6	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		2-Nitrophenol	0	ug/L	6.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Naphthalene	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		1-Fluoronaphthalene	49.5	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		alpha terpineol	0	ug/L	6.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		2-Chloronaphthalene	0	ug/L	6.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Acenaphthylene	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Acenaphthene	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		4-Nitrophenol	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Diethyl phthalate	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Fluorene	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		2,4,6-Tribromophenol	67.8	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Pentachlorophenol	0	ug/L	6.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		n-octadecane	0	ug/L	6.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Phenanthrene	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Anthracene	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		carbazole	0	ug/L	6.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Fluoranthene	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Benzidine	0	ug/L	6.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Pyrene	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Chrysene	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Di-n-octyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Perylene-D12	50.0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Hexachloroethane	0	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		2,3-Dichloroaniline	0	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Diethylphthalate	0	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Benzo[ghi]perylene	0	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		2,5-Cyclohexadien-1-one, 3,5-dihydroxy T	2	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		2-Hexene, 2,5,5-trimethyl- T	6	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	4	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		2-Butene, 2,3-dimethyl- T	3	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		2-Butenal, 3-methyl- T	7	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Undecane, 3,3-dimethyl- T	3	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Decane, 3,3,4-trimethyl- T	17	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		1-Octene, 3-ethyl- T	5	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Pentane, 2,3,4-trimethyl- T	3	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Cyclohexene, 1-ethyl- T	2	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Triphenylphosphine oxide T	3	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		Cholestane, 3,4-epoxy-, (3.alpha.,4.alpha.) T	2	ug/L	
AC07873	LM04	Little Miami Watershed	4	10/2/2012	10:40	\$625		TOTAL AMOUNT	632	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40		MF_CF	Fecal Coliform, Membrane Filter	1933	CFU/100mL	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40		E-COLI	E.coli (Colilert)	2420	MPN	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40		TDS	Total Dissolved Solids	220	mg/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40		BOD	Biochemical Oxygen Demand	2	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	SO4	Sulfate	32.8	mg/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	CL	Chloride	45.6	mg/L	1.00
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	TSS	Tot. Suspended Solids	10	mg/L	2
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	SSC	Suspended Sediment Concentration	aa	mg/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	HARD	Hardness as CaCO3	228	mg/l	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	COD	COD	5	mg/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	314	uS/cm	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	TEMP_FLD	Temperature (Field) Celsius	16.02	Deg C	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	PH_FLD	pH (Field)	8.17	S.U.	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	DO_FLD	Dissolved Oxygen (field) mg/L	12.82	mg/l	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	350	uS/cm	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$ICP	Aluminum	0.00	mg/L	0.348
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$ICP	Antimony	0.00	mg/L	0.006
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$ICP	Arsenic	0.00	mg/L	0.012
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$ICP	Barium	0.0940	mg/L	0.003
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$ICP	Beryllium	0.00	mg/L	0.009
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$ICP	Cadmium	0.00	mg/L	0.012
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$ICP	Calcium	188	mg/L	0.066
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$ICP	Chromium	0.0250	mg/L	0.006
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$ICP	Cobalt	0.00	mg/L	0.006
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$ICP	Copper	0.00	mg/L	0.006
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$ICP	Iron	0.109	mg/L	0.018
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$ICP	Lead	0.00	mg/L	0.006
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$ICP	Magnesium	39.1	mg/L	0.021
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$ICP	Manganese	1.18	mg/L	0.009
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$ICP	Nickel	0.00900	mg/L	0.003
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$ICP	Selenium	0.0129	mg/L	0.009
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$ICP	Silver	0.00	mg/L	0.003
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$ICP	Strontium	0.992	mg/L	0.009
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$ICP	Thallium	0.00	mg/L	0.012
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$ICP	Tin	0.00	mg/L	0.006
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$ICP	Zinc	0.0750	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	PB_FU	Lead by Furnace	0.18	ug/L	1.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	AS_FU	Arsenic by Furnace	0.78	ug/L	1.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	CU_FU	Copper by Furnace	3.1	ug/L	1
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	NH3	Ammonia as N	0	mg/L	0.5
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	NO2	Nitrite as N	0.0127	mg/l	0.005
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	Aldrin	AA	ug/L	0.02
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	Chlordane	AA	ug/L	0.10
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	Dieldrin	AA	ug/L	0.02
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	Endrin	AA	ug/L	0.02
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	Heptachlor	AA	ug/L	0.02
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	Toxaphene	AA	ug/L	1.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	PCB 1016	AA	ug/L	0.5
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	PCB 1221	AA	ug/L	0.5
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	PCB 1232	AA	ug/L	0.5
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	PCB 1242	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	PCB 1248	AA	ug/L	0.5
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	PCB 1254	AA	ug/L	0.5
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	PCB 1260	AA	ug/L	0.5
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	Surr: Decachlorobiphenyl	0.907	%	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$PEST	Surr: Tetrachloro-m-xylene	0.877	%	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	Chloromethane	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	Vinyl Chloride	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	Bromomethane	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	Chloroethane	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	Acrolein	0	ug/L	100.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	Acrylonitrile	0	ug/L	100.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	Methylene Chloride	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	Chloroform	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	1,2-Dichloroethane-d4	41.7	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	Benzene	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	Trichloroethene	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	Bromodichloromethane	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	Dibromochloromethane	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624	Bromoform	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624		Tetrachloroethene	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624		Toluene	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624		Toluene-d8	60.3	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624		Chlorobenzene	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624		Ethylbenzene	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624		Bromofluorobenzene	82.7	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624		2-Propanone	0	ug/L	60
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624		2-Butanone	0	ug/L	60
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624		Tetrahydrofuran	0	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624		2-chloroethoxy ethene	0	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$624		TOTAL AMOUNT	348	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		pyridine	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		2-Fluorophenol	41.4	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		aniline	0	ug/L	6.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Phenol-d6	26.0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Phenol	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		2-Chlorophenol	0	ug/L	6.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		n-decane	0	ug/L	6.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		o-cresol	0	ug/L	6.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		acetophenone	0	ug/L	6.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Hexachloroethane	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Nitrobenzene-d5	77.5	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		p-cresol	0	ug/L	6.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Nitrobenzene	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Isophorone	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Decafluorobiphenyl	82.6	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		2-Nitrophenol	0	ug/L	6.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Naphthalene	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		1-Fluoronaphthalene	75.7	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		alpha terpineol	0	ug/L	6.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Acenaphthylene	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Acenaphthene	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		4-Nitrophenol	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Diethyl phthalate	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Fluorene	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		2,4,6-Tribromophenol	81.2	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Pentachlorophenol	0	ug/L	6.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		n-octadecane	0	ug/L	6.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Phenanthrene	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Anthracene	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		carbazole	0	ug/L	6.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Fluoranthene	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Benzidine	0	ug/L	6.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Pyrene	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Chrysene	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Perylene-D12	50.0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Hexachloroethane	0	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		2,3-Dichloroaniline	0	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Diethylphthalate	0	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Benzo[ghi]perylene	0	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		2,5-Cyclohexadien-1-one, 3,5-dihydroxy T	2	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		2-Hexene, 2,5,5-trimethyl- T	6	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		1-Silacyclo-3-pentene T	2	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	12	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		2,4-Dimethyl-3-hexene(c,t) T	3	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	8	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Cyclohexane, 1,1-dimethyl- T	2	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Decane, 3,3,4-trimethyl- T	3	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Pentane, 2,3,4-trimethyl- T	19	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		1-Octene, 3-ethyl- T	5	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Pentane, 2,3,4-trimethyl- T2	3	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		Triphenylphosphine oxide T	4	ug/L	
AC07874	LM40	Little Miami Watershed	40	10/2/2012	11:40	\$625		TOTAL AMOUNT	754	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30		MF_CF	Fecal Coliform, Membrane Filter	1900	CFU/100mL	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30		E-COLI	E.coli (Colilert)	2420	MPN	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30		TDS	Total Dissolved Solids	340	mg/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30		SO4	Sulfate	33.2	mg/L	12.5
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30		CL	Chloride	86.8	mg/L	1.00
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30		TSS	Tot. Suspended Solids	6	mg/L	2
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30		SSC	Suspended Sediment Concentration	44.3	mg/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30		HARD	Hardness as CaCO3	268	mg/l	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30		COD	COD	14	mg/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	528	uS/cm	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30		TEMP_FLD	Temperature (Field) Celsius	17.29	Deg C	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30		PH_FLD	pH (Field)	8.07	S.U.	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30		DO_FLD	Dissolved Oxygen (field) mg/L	8.63	mg/l	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30		CONDUCTIVITY	Specific Conductivity (uS/cm)	619	uS/cm	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30		NH3	Ammonia as N	1.232	mg/L	0.5
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30		NO3NO2	Nitrate + Nitrite	1.49	mg/L	0.5
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30		TKN	Total Kjeldahl Nitrogen	0.8021	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	NO2	Nitrite as N	0.0241	mg/l	0.005
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	NO3	Nitrate as N (calculated)	1.4659	mg/l	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	CHLOROPHYLL	Chlorophyll	10.2	mg/m3	1.00
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	Aldrin	AA	ug/L	0.02
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	Chlordane	AA	ug/L	0.10
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	Endrin	AA	ug/L	0.02
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	Surr: Decachlorobiphenyl	0.972	%	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$PEST	Surr: Tetrachloro-m-xylene	0.977	%	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624	Chloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		Vinyl Chloride	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		Bromomethane	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		Chloroethane	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		Acrolein	0	ug/L	100.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		Acrylonitrile	0	ug/L	100.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		Methylene Chloride	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		Chloroform	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		1,2-Dichloroethane-d4	41.3	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		Benzene	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		Trichloroethene	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		Bromoform	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		Toluene	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		Toluene-d8	58.5	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		Chlorobenzene	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		Ethylbenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		Bromofluorobenzene	86.0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		2-Propanone	0	ug/L	60
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		2-Butanone	0	ug/L	60
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		Tetrahydrofuran	0	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$624		TOTAL AMOUNT	336	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		pyridine	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		2-Fluorophenol	22.7	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		aniline	0	ug/L	6.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Phenol-d6	17.8	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Phenol	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		n-decane	0	ug/L	6.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		o-cresol	0	ug/L	6.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		acetophenone	0	ug/L	6.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Hexachloroethane	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Nitrobenzene-d5	64.6	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		p-cresol	0	ug/L	6.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Nitrobenzene	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Isophorone	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Decafluorobiphenyl	65.4	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Naphthalene	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		1-Fluoronaphthalene	61.0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		alpha terpineol	0	ug/L	6.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Acenaphthylene	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Acenaphthene	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		4-Nitrophenol	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Diethyl phthalate	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Fluorene	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		2,4,6-Tribromophenol	33.1	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Pentachlorophenol	0	ug/L	6.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		n-octadecane	0	ug/L	6.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Phenanthrene	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Anthracene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		carbazole	0	ug/L	6.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Fluoranthene	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Benzdine	0	ug/L	6.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Pyrene	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Chrysene	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Hexachloroethane	0	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Diethylphthalate	0	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		Cyclobutane, 2-hexyl-1,1,4-trimethyl- T	2	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		2-Hexene, 2,5,5-trimethyl- T	6	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		2-Hexene, 3,5,5-trimethyl- T	2	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		1-Silacyclo-3-pentene T	2	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	22	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625	Hexane, 3-methyl-4-methylene- T	3	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	8	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625	1-Hexene, 3,4,5-trimethyl- T	3	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625	Decane, 3,3,4-trimethyl- T	18	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625	Octane, 3-methyl-6-methylene- T	5	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625	Pentane, 2,3,4-trimethyl- T	3	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625	Formylmethylenetriphenylphosphorane T	3	ug/L	
AC07875	LM07	Little Miami Watershed	7	10/2/2012	11:30	\$625	TOTAL AMOUNT	643	ug/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	MF_CF	Fecal Coliform, Membrane Filter	900	CFU/100mL	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	E-COLI	E.coli (Colilert)	1203	MPN	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	TDS	Total Dissolved Solids	280	mg/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	SO4	Sulfate	39.5	mg/L	12.5
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	CL	Chloride	60.1	mg/L	1.00
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	TSS	Tot. Suspended Solids	44	mg/L	2
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	SSC	Suspended Sediment Concentration	37.5	mg/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	HARD	Hardness as CaCO3	190	mg/l	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	COD	COD	27	mg/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	461	uS/cm	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	TEMP_FLD	Temperature (Field) Celsius	17.79	Deg C	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	PH_FLD	pH (Field)	7.68	S.U.	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	DO_FLD	Dissolved Oxygen (field) mg/L	9.15	mg/l	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	535	uS/cm	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	NH3	Ammonia as N	0	mg/L	0.5
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	NO3NO2	Nitrate + Nitrite	1.52	mg/L	0.5
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	TKN	Total Kjeldahl Nitrogen	0.6629	mg/L	0.5
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	NO2	Nitrite as N	0.0107	mg/l	0.005
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	NO3	Nitrate as N (calculated)	1.5093	mg/l	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	CHLOROPHYLL	Chlorophyll	7.71	mg/m3	1.00
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	Aldrin	AA	ug/L	0.02
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	Beta-BHC	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	Chlordane	AA	ug/L	0.10
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	Endrin	AA	ug/L	0.02
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	Toxaphene	AA	ug/L	1.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	Surr: Decachlorobiphenyl	0.940	%	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$PEST	Surr: Tetrachloro-m-xylene	0.917	%	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624	Chloromethane	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624	Bromomethane	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624	Chloroethane	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624	Acrolein	0	ug/L	100.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624	Acrylonitrile	0	ug/L	100.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		Methylene Chloride	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		Chloroform	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		1,2-Dichloroethane-d4	43.0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		Benzene	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		Trichloroethene	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		Bromodichloromethane	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		Bromoform	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		Toluene	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		Toluene-d8	51.1	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		Chlorobenzene	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		Ethylbenzene	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		Bromofluorobenzene	74.9	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		2-Propanone	0	ug/L	60
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		2-Butanone	0	ug/L	60
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624		Tetrahydrofuran	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624	2-chloroethoxy ethene	0	ug/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$624	TOTAL AMOUNT	319	ug/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	pyridine	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	2-Fluorophenol	26.4	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	aniline	0	ug/L	6.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Phenol-d6	17.8	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Phenol	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	2-Chlorophenol	0	ug/L	6.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	n-decane	0	ug/L	6.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	o-cresol	0	ug/L	6.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	acetophenone	0	ug/L	6.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Hexachloroethane	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Nitrobenzene-d5	63.0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	p-cresol	0	ug/L	6.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Nitrobenzene	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Isophorone	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Decafluorobiphenyl	68.3	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	2-Nitrophenol	0	ug/L	6.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Naphthalene	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	1-Fluoronaphthalene	58.8	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	alpha terpineol	0	ug/L	6.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Acenaphthylene	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Acenaphthene	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	4-Nitrophenol	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Diethyl phthalate	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Fluorene	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	2,4,6-Tribromophenol	49.8	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Pentachlorophenol	0	ug/L	6.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	n-octadecane	0	ug/L	6.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Phenanthrene	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Anthracene	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	carbazole	0	ug/L	6.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Fluoranthene	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Benzidine	0	ug/L	6.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Pyrene	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Butyl benzyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Chrysene	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Perylene-D12	50.0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Hexachloroethane	0	ug/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	2,3-Dichloroaniline	0	ug/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Diethylphthalate	0	ug/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Benzo[ghi]perylene	0	ug/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	6	ug/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	2-Butenal, 3-methyl- T	6	ug/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Pentane, 2,3,4-trimethyl- T	13	ug/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	3,3,3-Trifluoro-1,2-epoxypropane T	12	ug/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Borane, diethyl(decyloxy)- T	26	ug/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Crown ether N-phenylaza-15-crown-5 T	45	ug/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	1'H-Estra-1,3,5(10),9(11)-tetraeno[1,1 T	41	ug/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	17-Hydroxy-10,13-dimethyl-2,7,8,9,10,1 T	20	ug/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Estra-1,3,5(10),7-tetraen-17-one, 3-hy T	64	ug/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	No Hits From C:\Database\Nist98.l T	15	ug/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Pyrimidine, 2-(2-hydroxyphenyl)-4-pipe T	11	ug/L	
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	Methanesulfonic acid, (2,2,7,7-tetrame T	388	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07944	LM14	Little Miami Watershed	14	10/3/2012	09:00	\$625	TOTAL AMOUNT	1232	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	MF_CF	Fecal Coliform, Membrane Filter	733	CFU/100mL	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	E-COLI	E.coli (Colilert)	1203	MPN	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	TDS	Total Dissolved Solids	280	mg/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	SO4	Sulfate	36.0	mg/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	CL	Chloride	60.4	mg/L	1.00
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	TSS	Tot. Suspended Solids	30	mg/L	2
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	SSC	Suspended Sediment Concentration	29.2	mg/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	HARD	Hardness as CaCO3	196	mg/l	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	COD	COD	27	mg/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	371	uS/cm	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	TEMP_FLD	Temperature (Field) Celsius	17.66	Deg C	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	PH_FLD	pH (Field)	7.77	S.U.	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	DO_FLD	Dissolved Oxygen (field) mg/L	9.60	mg/l	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	431	uS/cm	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	NH3	Ammonia as N	0	mg/L	0.5
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	NO3NO2	Nitrate + Nitrite	1.53	mg/L	0.5
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	TKN	Total Kjeldahl Nitrogen	0.5882	mg/L	0.5
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	NO2	Nitrite as N	0.0170	mg/l	0.005
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	NO3	Nitrate as N (calculated)	1.5130	mg/l	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	CHLOROPHYLL	Chlorophyll	7.48	mg/m3	1.00
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	Aldrin	AA	ug/L	0.02
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	Chlordane	AA	ug/L	0.10
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	Dieldrin	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	Endrin	AA	ug/L	0.02
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	Surr: Decachlorobiphenyl	0.928	%	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$PEST	Surr: Tetrachloro-m-xylene	0.907	%	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Chloromethane	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Bromomethane	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Chloroethane	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Acrolein	0	ug/L	100.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Acrylonitrile	0	ug/L	100.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Methylene Chloride	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Chloroform	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	1,2-Dichloroethane-d4	42.7	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Benzene	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Trichloroethene	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Bromodichloromethane	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Dibromochloromethane	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Bromoform	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Tetrachloroethene	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Toluene	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Toluene-d8	66.7	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Chlorobenzene	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Ethylbenzene	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Bromofluorobenzene	79.5	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	2-Propanone	0	ug/L	60
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	2-Butanone	0	ug/L	60
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	Tetrahydrofuran	0	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	2-chloroethoxy ethene	0	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$624	TOTAL AMOUNT	347	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	pyridine	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	2-Fluorophenol	42.8	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	aniline	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		Phenol-d6	26.8	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		Phenol	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		n-decane	0	ug/L	6.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		o-cresol	0	ug/L	6.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		acetophenone	0	ug/L	6.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		Hexachloroethane	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		Nitrobenzene-d5	79.5	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		p-cresol	0	ug/L	6.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		Nitrobenzene	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		Isophorone	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		Decafluorobiphenyl	91.5	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		Naphthalene	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		1-Fluoronaphthalene	77.6	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		alpha terpineol	0	ug/L	6.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625		Acenaphthylene	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Acenaphthene	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	4-Nitrophenol	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Diethyl phthalate	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Fluorene	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	2,4,6-Tribromophenol	84.3	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Pentachlorophenol	0	ug/L	6.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	n-octadecane	0	ug/L	6.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Phenanthrene	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Anthracene	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	carbazole	0	ug/L	6.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Fluoranthene	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Benzidine	0	ug/L	6.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Pyrene	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Chrysene	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Perylene-D12	50.0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Benzo(b)fluoranthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Hexachloroethane	0	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	2,3-Dichloroaniline	0	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Diethylphthalate	0	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Benzo[ghi]perylene	0	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Cyclobutane, 2-hexyl-1,1,4-trimethyl- T	2	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	2-Hexene, 2,5,5-trimethyl- T	6	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	1-Silacyclo-3-pentene T	2	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	16	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Cyclopentane, 1,1,3,4-tetramethyl-, ci T	3	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	8	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	1-Hexene, 3,4,5-trimethyl- T	3	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Pentane, 2,3,4-trimethyl- T	19	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Octane, 3-methyl-6-methylene- T	6	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Pentane, 2,3,4-trimethyl- T2	3	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	Triphenylphosphine oxide T	4	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	16-Oxapentacyclo[13.2.2.0(1,13).0(2,10) T	32	ug/L	
AC07945	LM15	Little Miami Watershed	15	10/3/2012	09:30	\$625	TOTAL AMOUNT	807	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	MF_CF	Fecal Coliform, Membrane Filter	1233	CFU/100mL	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	E-COLI	E.coli (Colilert)	2420	MPN	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	TDS	Total Dissolved Solids	310	mg/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	SO4	Sulfate	36.4	mg/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	CL	Chloride	50.1	mg/L	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	TSS	Tot. Suspended Solids	0	mg/L	2
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	SSC	Suspended Sediment Concentration	8.0	mg/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	HARD	Hardness as CaCO3	180	mg/l	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	COD	COD	18	mg/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	433	uS/cm	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	TEMP_FLD	Temperature (Field) Celsius	18.86	Deg C	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	PH_FLD	pH (Field)	7.75	S.U.	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	DO_FLD	Dissolved Oxygen (field) mg/L	9.09	mg/l	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	512	uS/cm	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$ICP	Aluminum	0.00	mg/L	0.348
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$ICP	Antimony	0.00	mg/L	0.006
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$ICP	Arsenic	0.00	mg/L	0.012
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$ICP	Barium	0.0313	mg/L	0.003
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$ICP	Calcium	56.5	mg/L	0.066
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$ICP	Chromium	0.00	mg/L	0.006
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$ICP	Copper	0.00756	mg/L	0.006
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$ICP	Iron	0.139	mg/L	0.018
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$ICP	Lead	0.00824	mg/L	0.006
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$ICP	Magnesium	11.5	mg/L	0.021
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$ICP	Manganese	0.0149	mg/L	0.009
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$ICP	Nickel	0.00	mg/L	0.003
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$ICP	Selenium	0.0185	mg/L	0.009
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$ICP	Silver	0.00	mg/L	0.003
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$ICP	Strontium	0.220	mg/L	0.009
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$ICP	Thallium	0.00	mg/L	0.012
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$ICP	Tin	0.00	mg/L	0.006
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$ICP	Zinc	0.00	mg/L	0.006
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	PB_FU	Lead by Furnace	0.09	ug/L	1.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	AS_FU	Arsenic by Furnace	0.58	ug/L	1.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	CU_FU	Copper by Furnace	3.1	ug/L	1
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	NH3	Ammonia as N	0	mg/L	0.5
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	NO2	Nitrite as N	0.0108	mg/l	0.005
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	Aldrin	AA	ug/L	0.02
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	Chlordane	AA	ug/L	0.10
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	Dieldrin	AA	ug/L	0.02
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	Endrin	AA	ug/L	0.02
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	Heptachlor	AA	ug/L	0.02
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	Toxaphene	AA	ug/L	1.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	PCB 1016	AA	ug/L	0.5
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	PCB 1221	AA	ug/L	0.5
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	PCB 1232	AA	ug/L	0.5
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	PCB 1242	AA	ug/L	0.5
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	PCB 1248	AA	ug/L	0.5
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	PCB 1254	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	PCB 1260	AA	ug/L	0.5
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	Surr: Decachlorobiphenyl	0.877	%	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$PEST	Surr: Tetrachloro-m-xylene	0.847	%	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Chloromethane	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Vinyl Chloride	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Bromomethane	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Chloroethane	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Acrolein	0	ug/L	100.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Acrylonitrile	0	ug/L	100.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Methylene Chloride	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Chloroform	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	1,2-Dichloroethane-d4	42.7	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Benzene	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Trichloroethene	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Bromodichloromethane	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Dibromochloromethane	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Bromoform	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	1,4-Dichlorobutane	50.0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Tetrachloroethene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Toluene	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Toluene-d8	64.1	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Chlorobenzene	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Ethylbenzene	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Bromofluorobenzene	83.5	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	2-Propanone	0	ug/L	60
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	2-Butanone	0	ug/L	60
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	Tetrahydrofuran	0	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	2-chloroethoxy ethene	0	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$624	TOTAL AMOUNT	347	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	pyridine	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	2-Fluorophenol	24.5	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	aniline	0	ug/L	6.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Phenol-d6	17.9	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Phenol	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	2-Chlorophenol	0	ug/L	6.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	n-decane	0	ug/L	6.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	o-cresol	0	ug/L	6.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	acetophenone	0	ug/L	6.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Hexachloroethane	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Nitrobenzene-d5	61.8	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	p-cresol	0	ug/L	6.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Nitrobenzene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Isophorone	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Decafluorobiphenyl	63.5	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	2-Nitrophenol	0	ug/L	6.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Naphthalene	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	1-Fluoronaphthalene	61.2	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	alpha terpineol	0	ug/L	6.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Acenaphthylene	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Acenaphthene	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	4-Nitrophenol	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Diethyl phthalate	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Fluorene	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	2,4,6-Tribromophenol	62.3	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Pentachlorophenol	0	ug/L	6.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	n-octadecane	0	ug/L	6.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Phenanthrene	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Anthracene	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	carbazole	0	ug/L	6.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Fluoranthene	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Chrysene-d12	50.0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Benzidine	0	ug/L	6.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Pyrene	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Chrysene	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Perylene-D12	50.0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Hexachloroethane	0	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	2,3-Dichloroaniline	0	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Diethylphthalate	0	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625	Benzo[ghi]perylene	0	ug/L	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625		2,5-Cyclohexadien-1-one, 3,5-dihydroxy T	2	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625		2-Hexene, 3,5,5-trimethyl- T	4	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625		Cyclopentane, 1-ethyl-1-methyl- T	2	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	5	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625		3-Hexene, 2,2,5,5-tetramethyl-, (Z)- T	3	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	6	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625		Ethane, 1,1,2,2-tetrachloro- T	2	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625		Carbonic acid, dipentyl ester T	2	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625		Decane, 3,3,4-trimethyl- T	13	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625		1-Octene, 3-ethyl- T	4	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625		Decane, 3,3,4-trimethyl- T2	3	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625		Triphenylphosphine oxide T	3	ug/L	
AC07946	LM98	Little Miami Watershed	98	10/3/2012	09:45	\$625		TOTAL AMOUNT	640	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00		MF_CF	Fecal Coliform, Membrane Filter	800	CFU/100mL	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00		E-COLI	E.coli (Colilert)	1300	MPN	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00		TDS	Total Dissolved Solids	350	mg/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00		SO4	Sulfate	37.2	mg/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00		CL	Chloride	55.0	mg/L	1.00
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00		TSS	Tot. Suspended Solids	8	mg/L	2
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00		SSC	Suspended Sediment Concentration	10.4	mg/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00		HARD	Hardness as CaCO3	202	mg/l	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00		COD	COD	16	mg/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	454	uS/cm	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00		TEMP_FLD	Temperature (Field) Celsius	16.66	Deg C	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00		PH_FLD	pH (Field)	7.79	S.U.	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00		DO_FLD	Dissolved Oxygen (field) mg/L	10.20	mg/l	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00		CONDUCTIVITY	Specific Conductivity (uS/cm)	540	uS/cm	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00		\$ICP	Aluminum	0.00	mg/L	0.348
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00		\$ICP	Antimony	0.00728	mg/L	0.006
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00		\$ICP	Arsenic	0.00	mg/L	0.012
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00		\$ICP	Barium	0.0293	mg/L	0.003
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00		\$ICP	Beryllium	0.00	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$ICP	Calcium	52.6	mg/L	0.066
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$ICP	Chromium	0.00	mg/L	0.006
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$ICP	Copper	0.00775	mg/L	0.006
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$ICP	Iron	0.201	mg/L	0.018
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$ICP	Lead	0.00890	mg/L	0.006
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$ICP	Magnesium	11.0	mg/L	0.021
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$ICP	Manganese	0.0199	mg/L	0.009
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$ICP	Nickel	0.00	mg/L	0.003
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$ICP	Selenium	0.0290	mg/L	0.009
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$ICP	Silver	0.00	mg/L	0.003
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$ICP	Strontium	0.208	mg/L	0.009
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$ICP	Thallium	0.00	mg/L	0.012
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$ICP	Tin	0.00	mg/L	0.006
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$ICP	Zinc	0.00	mg/L	0.006
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	PB_FU	Lead by Furnace	0.21	ug/L	1.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	AS_FU	Arsenic by Furnace	0.65	ug/L	1.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	CU_FU	Copper by Furnace	2.7	ug/L	1
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	NO2	Nitrite as N	0.0109	mg/l	0.005
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	CHLOROPHYLL	Chlorophyll	7.48	mg/m3	1.00
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	Aldrin	AA	ug/L	0.02
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	Gamma-BHC	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	Chlordane	AA	ug/L	0.10
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	Endrin	AA	ug/L	0.02
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	Toxaphene	AA	ug/L	1.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	Surr: Decachlorobiphenyl	1.07	%	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$PEST	Surr: Tetrachloro-m-xylene	0.943	%	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624	Chloromethane	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624	Bromomethane	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624	Chloroethane	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624	Acrolein	0	ug/L	100.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624	Acrylonitrile	0	ug/L	100.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624	Methylene Chloride	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		Chloroform	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		1,2-Dichloroethane-d4	45.7	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		Benzene	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		Trichloroethene	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		Bromodichloromethane	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		Bromoform	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		Toluene	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		Toluene-d8	78.2	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		Chlorobenzene	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		Ethylbenzene	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		Bromofluorobenzene	67.6	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		2-Propanone	0	ug/L	60
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		2-Butanone	0	ug/L	60
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		Tetrahydrofuran	0	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		2-chloroethoxy ethene	0	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$624		TOTAL AMOUNT	342	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		pyridine	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		2-Fluorophenol	31.6	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		aniline	0	ug/L	6.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Phenol-d6	21.3	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Phenol	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		2-Chlorophenol	0	ug/L	6.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		n-decane	0	ug/L	6.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		o-cresol	0	ug/L	6.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		acetophenone	0	ug/L	6.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Hexachloroethane	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Nitrobenzene-d5	68.3	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		p-cresol	0	ug/L	6.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Nitrobenzene	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Isophorone	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Decafluorobiphenyl	65.6	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		2-Nitrophenol	0	ug/L	6.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Naphthalene	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		1-Fluoronaphthalene	65.8	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		alpha terpineol	0	ug/L	6.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Acenaphthylene	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Acenaphthene	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		4-Nitrophenol	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Diethyl phthalate	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Fluorene	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		2,4,6-Tribromophenol	62.8	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Pentachlorophenol	0	ug/L	6.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		n-octadecane	0	ug/L	6.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Phenanthrene	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Anthracene	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		carbazole	0	ug/L	6.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Fluoranthene	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Benzidine	0	ug/L	6.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Pyrene	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625		Benzo(a)anthracene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	Chrysene	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	Perylene-D12	50.0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	Hexachloroethane	0	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	2,3-Dichloroaniline	0	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	Diethylphthalate	0	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	Benzo[ghi]perylene	0	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	Hexane, 1-(hexyloxy)-4-methyl- T	2	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	2-Hexene, 3,5,5-trimethyl- T	7	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	2-Hexene, 3,5,5-trimethyl- T2	2	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	1-(1-Methyl-cyclopentyl)-ethanone T	2	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	19	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	2,4,6-Trimethyl-3-heptene T	3	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	2-Butenal, 3-methyl- T	9	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	2-Acetyl-6-methyl-2,3-dihydropyran T	3	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	Butane, 2-bromo-2-methyl- T	3	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	Decane, 3,3,4-trimethyl- T	19	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	1-Heptene, 4-methyl- T	6	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	Pentane, 2,3,4-trimethyl- T	3	ug/L	
AC07947	LM97	Little Miami Watershed	97	10/3/2012	10:00	\$625	TOTAL AMOUNT	693	ug/L	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	1900	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	E-COLI	E.coli (Colilert)	1733	MPN	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	TDS	Total Dissolved Solids	300	mg/L	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	BOD	Biochemical Oxygen Demand	3	mg/L	2
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	SO4	Sulfate	44.0	mg/L	12.5
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	CL	Chloride	42.7	mg/L	1.00
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	TSS	Tot. Suspended Solids	34	mg/L	2
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	SSC	Suspended Sediment Concentration	34.3	mg/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	HARD	Hardness as CaCO3	242	mg/l	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	COD	COD	27	mg/L	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	475	uS/cm	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	16.51	Deg C	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	PH_FLD	pH (Field)	7.86	S.U.	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	9.85	mg/l	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	567	uS/cm	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$ICP	Antimony	0.00	mg/L	0.006
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$ICP	Barium	0.0444	mg/L	0.003
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$ICP	Calcium	70.5	mg/L	0.066
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$ICP	Chromium	0.00	mg/L	0.006
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$ICP	Copper	0.00769	mg/L	0.006
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$ICP	Iron	0.417	mg/L	0.018
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$ICP	Lead	0.0102	mg/L	0.006
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$ICP	Magnesium	14.4	mg/L	0.021
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$ICP	Manganese	0.0781	mg/L	0.009
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$ICP	Nickel	0.00	mg/L	0.003
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$ICP	Selenium	0.0169	mg/L	0.009
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$ICP	Silver	0.00	mg/L	0.003
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$ICP	Strontium	0.316	mg/L	0.009
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$ICP	Thallium	0.00	mg/L	0.012



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$ICP	Tin	0.00	mg/L	0.006
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$ICP	Zinc	0.00640	mg/L	0.006
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	PB_FU	Lead by Furnace	0.30	ug/L	1.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	AS_FU	Arsenic by Furnace	1.41	ug/L	1.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	CU_FU	Copper by Furnace	1.9	ug/L	1
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	NO2	Nitrite as N	0.0249	mg/l	0.005
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	Aldrin	AA	ug/L	0.02
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	Chlordane	AA	ug/L	0.10
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	Endrin	AA	ug/L	0.02
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	PCB 1016	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	Surr: Decachlorobiphenyl	0.973	%	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$PEST	Surr: Tetrachloro-m-xylene	0.850	%	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	Chloromethane	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	Bromomethane	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	Chloroethane	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	Acrolein	0	ug/L	100.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	Acrylonitrile	0	ug/L	100.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	Methylene Chloride	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	Chloroform	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	1,2-Dichloroethane-d4	41.0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	Benzene	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	Trichloroethene	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	Bromodichloromethane	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624		Bromoform	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624		Toluene	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624		Toluene-d8	65.0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624		Chlorobenzene	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624		Ethylbenzene	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624		Bromofluorobenzene	90.4	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624		2-Propanone	0	ug/L	60
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624		2-Butanone	0	ug/L	60
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624		Tetrahydrofuran	0	ug/L	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624		2-chloroethoxy ethene	0	ug/L	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$624		TOTAL AMOUNT	346	ug/L	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		pyridine	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		2-Fluorophenol	26.5	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		aniline	0	ug/L	6.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Phenol-d6	17.0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Phenol	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		n-decane	0	ug/L	6.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		o-cresol	0	ug/L	6.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		acetophenone	0	ug/L	6.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Hexachloroethane	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Nitrobenzene-d5	50.5	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		p-cresol	0	ug/L	6.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Nitrobenzene	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Isophorone	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Decafluorobiphenyl	37.4	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Naphthalene	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		1-Fluoronaphthalene	44.0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		alpha terpineol	0	ug/L	6.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Acenaphthylene	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Acenaphthene	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		4-Nitrophenol	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Diethyl phthalate	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Fluorene	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Phenanthrene-D10	50.0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		2,4,6-Tribromophenol	52.0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Pentachlorophenol	0	ug/L	6.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		n-octadecane	0	ug/L	6.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Phenanthrene	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Anthracene	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		carbazole	0	ug/L	6.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Fluoranthene	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Benzidine	0	ug/L	6.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Pyrene	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Chrysene	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Hexachloroethane	0	ug/L	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Diethylphthalate	0	ug/L	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625	Benzo[ghi]perylene	0	ug/L	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625	2-Hexene, 2,5,5-trimethyl- T	4	ug/L	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	8	ug/L	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625	2-Butenal, 3-methyl- T	3	ug/L	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625	Decane, 3,3,4-trimethyl- T	2	ug/L	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625	Decane, 3,3,4-trimethyl- T2	7	ug/L	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625	1-Octene, 3-ethyl- T	3	ug/L	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625	Pentane, 2,3,4-trimethyl- T	1	ug/L	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625	Triphenylphosphine oxide T	1	ug/L	
AC07948	LM104	Little Miami Watershed	104	10/3/2012	10:30	\$625	TOTAL AMOUNT	557	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	MF_CF	Fecal Coliform, Membrane Filter	340	CFU/100mL	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	E-COLI	E.coli (Colilert)	387	MPN	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	TDS	Total Dissolved Solids	300	mg/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	SO4	Sulfate	40.2	mg/L	12.5
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	CL	Chloride	48.9	mg/L	1.00
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	TSS	Tot. Suspended Solids	8	mg/L	2
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	HARD	Hardness as CaCO3	188	mg/l	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	COD	COD	12	mg/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	416	uS/cm	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	TEMP_FLD	Temperature (Field) Celsius	16.78	Deg C	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	PH_FLD	pH (Field)	7.65	S.U.	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	DO_FLD	Dissolved Oxygen (field) mg/L	10.22	mg/l	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	494	uS/cm	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$ICP	Aluminum	0.00	mg/L	0.348
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$ICP	Antimony	0.00	mg/L	0.006
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$ICP	Arsenic	0.00	mg/L	0.012
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$ICP	Barium	0.0244	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$ICP	Beryllium	0.00	mg/L	0.009
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$ICP	Cadmium	0.00	mg/L	0.012
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$ICP	Calcium	52.6	mg/L	0.066
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$ICP	Chromium	0.00	mg/L	0.006
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$ICP	Cobalt	0.00	mg/L	0.006
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$ICP	Copper	0.00704	mg/L	0.006
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$ICP	Iron	0.0498	mg/L	0.018
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$ICP	Lead	0.00668	mg/L	0.006
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$ICP	Magnesium	10.4	mg/L	0.021
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$ICP	Manganese	0.00	mg/L	0.009
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$ICP	Nickel	0.00	mg/L	0.003
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$ICP	Selenium	0.0201	mg/L	0.009
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$ICP	Silver	0.00	mg/L	0.003
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$ICP	Strontium	0.232	mg/L	0.009
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$ICP	Thallium	0.00	mg/L	0.012
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$ICP	Tin	0.00	mg/L	0.006
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$ICP	Vanadium	0.00	mg/L	0.018
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$ICP	Zinc	0.00618	mg/L	0.006
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	PB_FU	Lead by Furnace	0.04	ug/L	1.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	AS_FU	Arsenic by Furnace	0.58	ug/L	1.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	CU_FU	Copper by Furnace	2.2	ug/L	1
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	NH3	Ammonia as N	0	mg/L	0.5
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	NO2	Nitrite as N	0.0115	mg/l	0.005
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	Aldrin	AA	ug/L	0.02
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	Delta-BHC	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	Chlordane	AA	ug/L	0.10
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	Dieldrin	AA	ug/L	0.02
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	Endrin	AA	ug/L	0.02
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	Heptachlor	AA	ug/L	0.02
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	Toxaphene	AA	ug/L	1.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	PCB 1016	AA	ug/L	0.5
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	PCB 1221	AA	ug/L	0.5
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	PCB 1232	AA	ug/L	0.5
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	PCB 1242	AA	ug/L	0.5
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	PCB 1248	AA	ug/L	0.5
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	PCB 1254	AA	ug/L	0.5
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	PCB 1260	AA	ug/L	0.5
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	Surr: Decachlorobiphenyl	0.988	%	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$PEST	Surr: Tetrachloro-m-xylene	0.815	%	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624	Chloromethane	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624	Vinyl Chloride	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624	Bromomethane	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624	Chloroethane	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624	Acrolein	0	ug/L	100.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624	Acrylonitrile	0	ug/L	100.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624	Methylene Chloride	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		Chloroform	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		1,2-Dichloroethane-d4	41.1	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		Benzene	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		Trichloroethene	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		Bromodichloromethane	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		Dibromochloromethane	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		Bromoform	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		Tetrachloroethene	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		Toluene	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		Toluene-d8	56.0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		Chlorobenzene	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		Ethylbenzene	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		Bromofluorobenzene	87.6	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		2-Propanone	0	ug/L	60
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		2-Butanone	0	ug/L	60
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		Tetrahydrofuran	0	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624		2-chloroethoxy ethene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$624	TOTAL AMOUNT	335	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	pyridine	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	2-Fluorophenol	33.1	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	aniline	0	ug/L	6.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	Phenol-d6	24.2	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	Phenol	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	2-Chlorophenol	0	ug/L	6.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	n-decane	0	ug/L	6.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	o-cresol	0	ug/L	6.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	acetophenone	0	ug/L	6.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	Hexachloroethane	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	Nitrobenzene-d5	79.4	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	p-cresol	0	ug/L	6.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	Nitrobenzene	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	Isophorone	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	Decafluorobiphenyl	73.5	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	2-Nitrophenol	0	ug/L	6.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	Naphthalene	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	1-Fluoronaphthalene	77.8	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	alpha terpineol	0	ug/L	6.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625	Acenaphthene-d10	50.0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Acenaphthylene	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Acenaphthene	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		4-Nitrophenol	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Diethyl phthalate	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Fluorene	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		2,4,6-Tribromophenol	65.0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Pentachlorophenol	0	ug/L	6.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		n-octadecane	0	ug/L	6.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Phenanthrene	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Anthracene	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		carbazole	0	ug/L	6.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Fluoranthene	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Benzidine	0	ug/L	6.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Pyrene	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Chrysene	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Perylene-D12	50.0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Hexachloroethane	0	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		2,3-Dichloroaniline	0	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Diethylphthalate	0	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Benzo[ghi]perylene	0	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		6,6-Dimethyl-cyclohex-2-en-1-ol T	2	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		2-Hexene, 2,5,5-trimethyl- T	8	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		2-Hexene, 2,5,5-trimethyl- T2	2	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	10	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Hexane, 3-methyl-4-methylene- T	2	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		2-Butenal, 3-methyl- T	5	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		1-(1-Methyl-cyclohexyl)-ethanone T	2	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Decane, 3,3,8-trimethyl- T	3	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Pentane, 2,3,4-trimethyl- T	14	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Octane, 3-methyl-6-methylene- T	5	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Pentane, 2,3,4-trimethyl- T2	2	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		Diethyltoluamide T	13	ug/L	
AC07949	LM108	Little Miami Watershed	108	10/3/2012	10:50	\$625		TOTAL AMOUNT	721	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	210	CFU/100mL	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	E-COLI	E.coli (Colilert)	344	MPN	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	TDS	Total Dissolved Solids	300	mg/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	SO4	Sulfate	34.2	mg/L	12.5
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	CL	Chloride	56.2	mg/L	1.00
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	TSS	Tot. Suspended Solids	10	mg/L	2
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	HARD	Hardness as CaCO3	190	mg/l	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	COD	COD	31	mg/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	444	uS/cm	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	16.75	Deg C	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	PH_FLD	pH (Field)	7.80	S.U.	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	8.65	mg/l	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	527	uS/cm	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$ICP	Antimony	0.00	mg/L	0.006
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$ICP	Barium	0.0320	mg/L	0.003
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$ICP	Calcium	57.8	mg/L	0.066
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$ICP	Chromium	0.00	mg/L	0.006
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$ICP	Copper	0.00	mg/L	0.006
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$ICP	Iron	0.114	mg/L	0.018
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$ICP	Lead	0.00	mg/L	0.006
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$ICP	Magnesium	13.6	mg/L	0.021
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$ICP	Manganese	0.00	mg/L	0.009
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$ICP	Nickel	0.00	mg/L	0.003
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$ICP	Selenium	0.0238	mg/L	0.009
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$ICP	Silver	0.00	mg/L	0.003
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$ICP	Strontium	0.222	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$ICP	Thallium	0.0296	mg/L	0.012
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$ICP	Tin	0.00	mg/L	0.006
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$ICP	Zinc	0.00	mg/L	0.006
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	PB_FU	Lead by Furnace	0.13	ug/L	1.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	AS_FU	Arsenic by Furnace	1.01	ug/L	1.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	CU_FU	Copper by Furnace	3.3	ug/L	1
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	NO2	Nitrite as N	0.0097	mg/l	0.005
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	Aldrin	AA	ug/L	0.02
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	Chlordane	AA	ug/L	0.10
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	Endrin	AA	ug/L	0.02
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	Toxaphene	AA	ug/L	1.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	Surr: Decachlorobiphenyl	0.820	%	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$PEST	Surr: Tetrachloro-m-xylene	0.761	%	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	Bromochloromethane	50.0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	Chloromethane	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	Bromomethane	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	Chloroethane	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	Acrolein	0	ug/L	100.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	Acrylonitrile	0	ug/L	100.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	Methylene Chloride	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	Chloroform	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	1,2-Dichloroethane-d4	41.0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	Benzene	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	Trichloroethene	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	Bromodichloromethane	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624		Bromoform	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624		Toluene	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624		Toluene-d8	56.4	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624		Chlorobenzene	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624		Ethylbenzene	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624		Bromofluorobenzene	89.7	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624		2-Propanone	0	ug/L	60
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624		2-Butanone	0	ug/L	60
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624		Tetrahydrofuran	0	ug/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624		2-chloroethoxy ethene	0	ug/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$624		TOTAL AMOUNT	337	ug/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		pyridine	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		2-Fluorophenol	35.8	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		aniline	0	ug/L	6.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Phenol-d6	25.3	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Phenol	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		2-Chlorophenol	0	ug/L	6.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		n-decane	0	ug/L	6.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		o-cresol	0	ug/L	6.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		acetophenone	0	ug/L	6.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Hexachloroethane	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Nitrobenzene-d5	72.4	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		p-cresol	0	ug/L	6.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Nitrobenzene	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Isophorone	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Decafluorobiphenyl	52.9	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		2-Nitrophenol	0	ug/L	6.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Naphthalene	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		1-Fluoronaphthalene	57.2	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		alpha terpineol	0	ug/L	6.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Acenaphthylene	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Acenaphthene	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		4-Nitrophenol	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Diethyl phthalate	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Fluorene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		2,4,6-Tribromophenol	67.2	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Pentachlorophenol	0	ug/L	6.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		n-octadecane	0	ug/L	6.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Phenanthrene	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Anthracene	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		carbazole	0	ug/L	6.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Fluoranthene	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Benzidine	0	ug/L	6.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Pyrene	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Chrysene	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Perylene-D12	50.0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Hexachloroethane	0	ug/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		2,3-Dichloroaniline	0	ug/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Diethylphthalate	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Benzo[ghi]perylene	0	ug/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		9-Thiabicyclo[3.3.1]non-6-en-2-amine, T	2	ug/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		2-Hexene, 3,5,5-trimethyl- T	6	ug/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		2-Hexene, 2,5,5-trimethyl- T	2	ug/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	15	ug/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		3-Hexene, 2,3-dimethyl- T	1	ug/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	4	ug/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		1-Hexene, 3,4,5-trimethyl- T	2	ug/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Pentane, 2,3,4-trimethyl- T	11	ug/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Octane, 3-methyl-6-methylene- T	4	ug/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Pentane, 2,3,4-trimethyl- T2	2	ug/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Diethyltoluamide T	6	ug/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		Triphenylphosphine oxide T	2	ug/L	
AC07950	LM105	Little Miami Watershed	105	10/3/2012	11:00	\$625		TOTAL AMOUNT	667	ug/L	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25		TSS	Tot. Suspended Solids	42	mg/L	2
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25		COD	COD	12	mg/L	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25		TDS	Total Dissolved Solids	310	mg/L	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25		CBOD	Carbonaceous Biochemical Oxygen Demand	2	mg/L	2
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25		MF_CF	Fecal Coliform, Membrane Filter	1000	CFU/100mL	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		Bromochloromethane	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		Chloromethane	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		Vinyl Chloride	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		Bromomethane	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		Chloroethane	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		Trichlorofluoromethane	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		Acrolein	AW	ug/L	100.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		1,1-Dichloroethene	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		Acrylonitrile	AW	ug/L	100.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		Methylene Chloride	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		Trans-1,2-Dichloroethene	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		1,1-Dichloroethane	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		Chloroform	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		2-Bromo,1-Chloropropane	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		1,2-Dichloroethane	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		1,2-Dichloroethane-d4	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		1,1,1-Trichloroethane	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		Carbon Tetrachloride	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		Benzene	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		Trichloroethene	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		2-Chloroethylvinylether	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		1,2-Dichloropropane	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		Bromodichloromethane	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		cis-1,3-Dichloropropene	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		trans-1,3-Dichloropropene	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		1,1,2-Trichloroethane	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		Dibromochloromethane	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		Bromoform	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		1,4-Dichlorobutane	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		Tetrachloroethene	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		1,1,2,2-Tetrachloroethane	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		Toluene	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		Toluene-d8	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		Chlorobenzene	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		Ethylbenzene	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		Bromofluorobenzene	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		1,3-Dichlorobenzene	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		1,4-Dichlorobenzene	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		1,2-Dichlorobenzene	AW	ug/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		2-Propanone	AW	ug/L	60
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$624		2-Butanone	AW	ug/L	60
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	NH3		Ammonia as N	2.272	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	NO3NO2	Nitrate + Nitrite	1.74	mg/L	0.5
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	TKN	Total Kjeldahl Nitrogen	0.8465	mg/L	0.5
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	O&G	O&G Total	1.1	mg/L	5
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	CN	Cyanide	0.0000	mg/L	0.005
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	CN_A	Cyanide Amenable	AW	mg/L	0.005
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	CN_F	Cyanide Free	AW	mg/L	0.005
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	pyridine	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	2-Fluorophenol	32.6	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	aniline	0	ug/L	6.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Phenol-d6	22.3	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Phenol	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	2-Chlorophenol	0	ug/L	6.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	n-decane	0	ug/L	6.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	o-cresol	0	ug/L	6.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	acetophenone	0	ug/L	6.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Hexachloroethane	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Nitrobenzene-d5	61.3	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	p-cresol	0	ug/L	6.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Nitrobenzene	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Isophorone	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Decafluorobiphenyl	49.1	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	2-Nitrophenol	0	ug/L	6.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Naphthalene	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	1-Fluoronaphthalene	55.2	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	alpha terpineol	0	ug/L	6.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Acenaphthylene	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Acenaphthene	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	4-Nitrophenol	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Diethyl phthalate	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Fluorene	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	2,4,6-Tribromophenol	68.1	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Pentachlorophenol	0	ug/L	6.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	n-octadecane	0	ug/L	6.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Phenanthrene	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Anthracene	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	carbazole	0	ug/L	6.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Di-n-butyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Fluoranthene	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Benzidine	0	ug/L	6.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Pyrene	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Chrysene	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Perylene-D12	50.0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Hexachloroethane	0	ug/L	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		2,3-Dichloroaniline	0	ug/L	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Diethylphthalate	0	ug/L	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Benzo[ghi]perylene	0	ug/L	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		2-Hexene, 2,5,5-trimethyl- T	5	ug/L	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		2-Hexene, 3,5,5-trimethyl- T	1	ug/L	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	5	ug/L	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	2	ug/L	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Pentane, 2,3,4-trimethyl- T	1	ug/L	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		Pentane, 2,3,4-trimethyl- T2	6	ug/L	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625		1-Heptene, 4-methyl- T	3	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Pentane, 2,3,4-trimethyl- T3	1	ug/L	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	1H-Benzotriazole, 5-methyl- T	1	ug/L	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	Triphenylphosphine oxide T	2	ug/L	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$625	TOTAL AMOUNT	617	ug/L	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$ICP	Aluminum	0.717	mg/L	0.348
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$ICP	Antimony	0.00	mg/L	0.006
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$ICP	Arsenic	0.00	mg/L	0.012
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$ICP	Barium	0.0444	mg/L	0.003
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$ICP	Beryllium	0.00	mg/L	0.009
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$ICP	Cadmium	0.00	mg/L	0.012
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$ICP	Calcium	52.9	mg/L	0.066
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$ICP	Chromium	0.00	mg/L	0.006
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$ICP	Cobalt	0.00	mg/L	0.006
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$ICP	Copper	0.00691	mg/L	0.006
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$ICP	Iron	1.28	mg/L	0.018
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$ICP	Lead	0.00	mg/L	0.006
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$ICP	Magnesium	15.2	mg/L	0.021
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$ICP	Manganese	0.0849	mg/L	0.009
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$ICP	Nickel	0.00	mg/L	0.003
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$ICP	Selenium	0.0230	mg/L	0.009
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$ICP	Silver	0.00	mg/L	0.003
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$ICP	Strontium	0.207	mg/L	0.009
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$ICP	Thallium	0.00	mg/L	0.012
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$ICP	Tin	0.00	mg/L	0.006
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$ICP	Vanadium	0.00	mg/L	0.018
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	\$ICP	Zinc	0.0105	mg/L	0.006
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	HARD	Hardness as CaCO3	206	mg/l	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	HG1631	Mercury (Low Level)	5.39	ng/L	5
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	E-COLI	E.coli (Colilert)	1553	MPN	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	SSC	Suspended Sediment Concentration	31.1	mg/L	5.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	CL	Chloride	60.6	mg/L	1.00
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	SO4	Sulfate	33.8	mg/L	12.5



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	CHLOROPHYLL	Chlorophyll	5.34	mg/m3	1.00
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	NO2	Nitrite as N	0.0167	mg/l	0.005
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	NO3	Nitrate as N (calculated)	1.7233	mg/l	
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	PB_FU	Lead by Furnace	1.7	ug/L	1.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	AS_FU	Arsenic by Furnace	2.4	ug/L	1.0
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	CU_FU	Copper by Furnace	4.4	ug/L	1
AC07991	3261-01	Little Miami River	1	10/3/2012	10:25	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	TSS	Tot. Suspended Solids	84	mg/L	2
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	COD	COD	22	mg/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	TDS	Total Dissolved Solids	350	mg/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	CBOD	Carbonaceous Biochemical Oxygen Demand	6	mg/L	2
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	MF_CF	Fecal Coliform, Membrane Filter	800	CFU/100mL	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624	Bromochloromethane	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624	Chloromethane	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624	Vinyl Chloride	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624	Bromomethane	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624	Chloroethane	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624	Trichlorofluoromethane	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624	Acrolein	AW	ug/L	100.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624	1,1-Dichloroethene	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624	Acrylonitrile	AW	ug/L	100.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624	Methylene Chloride	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624	Trans-1,2-Dichloroethene	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624	1,1-Dichloroethane	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624	Chloroform	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624	2-Bromo,1-Chloropropane	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624	1,2-Dichloroethane	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624	1,2-Dichloroethane-d4	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624	1,1,1-Trichloroethane	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624	Carbon Tetrachloride	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624	Benzene	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624	Trichloroethene	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624	2-Chloroethylvinylether	AW	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624		1,2-Dichloropropane	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624		Bromodichloromethane	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624		cis-1,3-Dichloropropene	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624		trans-1,3-Dichloropropene	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624		1,1,2-Trichloroethane	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624		Dibromochloromethane	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624		Bromoform	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624		1,4-Dichlorobutane	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624		Tetrachloroethene	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624		1,1,2,2-Tetrachloroethane	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624		Toluene	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624		Toluene-d8	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624		Chlorobenzene	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624		Ethylbenzene	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624		Bromofluorobenzene	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624		1,3-Dichlorobenzene	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624		1,4-Dichlorobenzene	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624		1,2-Dichlorobenzene	AW	ug/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624		2-Propanone	AW	ug/L	60
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$624		2-Butanone	AW	ug/L	60
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	NH3		Ammonia as N	0	mg/L	0.5
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	NO3NO2		Nitrate + Nitrite	1.49	mg/L	0.5
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	TKN		Total Kjeldahl Nitrogen	0.3980	mg/L	0.5
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	TKP		Total Kjeldahl Phosphorus	0.4022	mg/L	0.5
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	O&G		O&G Total	0.52	mg/L	5
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	CN		Cyanide	0.0000	mg/L	0.005
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	CN_A		Cyanide Amenable	AW	mg/L	0.005
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	CN_F		Cyanide Free	AW	mg/L	0.005
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		pyridine	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		2-Fluorophenol	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		aniline	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	Phenol-d6	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	Phenol	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	2-Chlorophenol	0	ug/L	6.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	n-decane	0	ug/L	6.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	o-cresol	0	ug/L	6.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	acetophenone	0	ug/L	6.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	Hexachloroethane	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	Nitrobenzene-d5	6.9	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	p-cresol	14.9	ug/L	6.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	Nitrobenzene	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	Isophorone	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	Decafluorobiphenyl	5.9	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	2-Nitrophenol	0	ug/L	6.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	Naphthalene	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	1-Fluoronaphthalene	6.2	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	alpha terpineol	0	ug/L	6.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625	Acenaphthylene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Acenaphthene	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		4-Nitrophenol	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Diethyl phthalate	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Fluorene	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		2,4,6-Tribromophenol	3.3	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Pentachlorophenol	0	ug/L	6.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		n-octadecane	0	ug/L	6.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Phenanthrene	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Anthracene	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		carbazole	0	ug/L	6.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Fluoranthene	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Benzidine	0	ug/L	6.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Pyrene	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Chrysene	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Perylene-D12	50.0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Benzo(b)fluoranthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Hexachloroethane	0	ug/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		2,3-Dichloroaniline	0	ug/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Diethylphthalate	0	ug/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Benzo[ghi]perylene	0	ug/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		1-Pentanol T	35	ug/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Cyclopentanone T	195	ug/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		1-Hexanol T	61	ug/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		2-Heptanone T	13	ug/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Cyclohexanone T	16	ug/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		1-Heptanol T	26	ug/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		2-Octanone T	16	ug/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Phenol T3	9	ug/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		1-Hexanol, 2-ethyl- T	30	ug/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		1-Octanol T	39	ug/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		8-Octadecenoic acid, methyl ester T	17	ug/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		Eicosane T	9	ug/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$625		TOTAL AMOUNT	814	ug/L	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$ICP		Aluminum	1.05	mg/L	0.348
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$ICP		Antimony	0.00	mg/L	0.006
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$ICP		Arsenic	0.00	mg/L	0.012
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$ICP		Barium	0.0459	mg/L	0.003
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$ICP		Beryllium	0.00	mg/L	0.009
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$ICP		Cadmium	0.00	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$ICP	Calcium	56.8	mg/L	0.066
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$ICP	Chromium	0.00	mg/L	0.006
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$ICP	Cobalt	0.00	mg/L	0.006
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$ICP	Copper	0.00651	mg/L	0.006
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$ICP	Iron	1.87	mg/L	0.018
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$ICP	Lead	0.00	mg/L	0.006
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$ICP	Magnesium	16.3	mg/L	0.021
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$ICP	Manganese	0.111	mg/L	0.009
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$ICP	Nickel	0.00306	mg/L	0.003
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$ICP	Selenium	0.0209	mg/L	0.009
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$ICP	Silver	0.00	mg/L	0.003
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$ICP	Strontium	0.208	mg/L	0.009
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$ICP	Thallium	0.00	mg/L	0.012
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$ICP	Tin	0.00	mg/L	0.006
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$ICP	Vanadium	0.00	mg/L	0.018
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	\$ICP	Zinc	0.0124	mg/L	0.006
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	HARD	Hardness as CaCO3	214	mg/l	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	HG1631	Mercury (Low Level)	4.3	ng/L	5
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	E-COLI	E.coli (Colilert)	980	MPN	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	SSC	Suspended Sediment Concentration	82.0	mg/L	5.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	CL	Chloride	59.6	mg/L	1.00
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	SO4	Sulfate	35.8	mg/L	12.5
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	CHLOROPHYLL	Chlorophyll	6.94	mg/m3	1.00
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	NO2	Nitrite as N	0.0122	mg/l	0.005
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	NO3	Nitrate as N (calculated)	1.4778	mg/l	
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	PB_FU	Lead by Furnace	2.2	ug/L	1.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	AS_FU	Arsenic by Furnace	2.4	ug/L	1.0
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07992	3261-02	Little Miami River	2	10/3/2012	10:35	CU_FU	Copper by Furnace	4.6	ug/L	1
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	TSS	Tot. Suspended Solids	38	mg/L	2
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	COD	COD	14	mg/L	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	TDS	Total Dissolved Solids	360	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	CBOD	Carbonaceous Biochemical Oxygen Demand	2	mg/L	2
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	MF_CF	Fecal Coliform, Membrane Filter	767	CFU/100mL	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	Bromochloromethane	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	Chloromethane	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	Vinyl Chloride	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	Bromomethane	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	Chloroethane	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	Trichlorofluoromethane	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	Acrolein	AW	ug/L	100.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	1,1-Dichloroethene	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	Acrylonitrile	AW	ug/L	100.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	Methylene Chloride	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	Trans-1,2-Dichloroethene	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	1,1-Dichloroethane	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	Chloroform	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	2-Bromo,1-Chloropropane	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	1,2-Dichloroethane	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	1,2-Dichloroethane-d4	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	1,1,1-Trichloroethane	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	Carbon Tetrachloride	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	Benzene	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	Trichloroethene	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	2-Chloroethylvinylether	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	1,2-Dichloropropane	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	Bromodichloromethane	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	cis-1,3-Dichloropropene	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	trans-1,3-Dichloropropene	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	1,1,2-Trichloroethane	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	Dibromochloromethane	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	Bromoform	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	1,4-Dichlorobutane	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	Tetrachloroethene	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624	1,1,2,2-Tetrachloroethane	AW	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624		Toluene	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624		Toluene-d8	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624		Chlorobenzene	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624		Ethylbenzene	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624		Bromofluorobenzene	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624		1,3-Dichlorobenzene	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624		1,4-Dichlorobenzene	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624		1,2-Dichlorobenzene	AW	ug/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624		2-Propanone	AW	ug/L	60
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$624		2-Butanone	AW	ug/L	60
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	NH3		Ammonia as N	0	mg/L	0.5
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	NO3NO2		Nitrate + Nitrite	1.50	mg/L	0.5
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	TKN		Total Kjeldahl Nitrogen	.4656	mg/L	0.5
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	TKP		Total Kjeldahl Phosphorus	0.3823	mg/L	0.5
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	O&G		O&G Total	0.23	mg/L	5
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	CN		Cyanide	0.0000	mg/L	0.005
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	CN_A		Cyanide Amenable	AW	mg/L	0.005
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	CN_F		Cyanide Free	AW	mg/L	0.005
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		pyridine	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		2-Fluorophenol	29.2	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		aniline	0	ug/L	6.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Phenol-d6	19.4	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Phenol	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		2-Chlorophenol	0	ug/L	6.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		n-decane	0	ug/L	6.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		o-cresol	0	ug/L	6.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		acetophenone	0	ug/L	6.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Hexachloroethane	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	Nitrobenzene-d5	57.6	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	p-cresol	0	ug/L	6.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	Nitrobenzene	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	Isophorone	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	Decafluorobiphenyl	54.0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	2-Nitrophenol	0	ug/L	6.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	Naphthalene	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	1-Fluoronaphthalene	55.7	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	alpha terpineol	0	ug/L	6.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	Acenaphthylene	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	Acenaphthene	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	4-Nitrophenol	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	Diethyl phthalate	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	Fluorene	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		2,4,6-Tribromophenol	62.4	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Pentachlorophenol	0	ug/L	6.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		n-octadecane	0	ug/L	6.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Phenanthrene	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Anthracene	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		carbazole	0	ug/L	6.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Fluoranthene	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Benzidine	0	ug/L	6.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Pyrene	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Chrysene	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Perylene-D12	50.0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Hexachloroethane	0	ug/L	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		2,3-Dichloroaniline	0	ug/L	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Diethylphthalate	0	ug/L	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Benzo[b]fluoranthene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Benzo[ghi]perylene	0	ug/L	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		2-Hexene, 2,5,5-trimethyl- T	4	ug/L	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		2-Hexene, 3,5,5-trimethyl- T	1	ug/L	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	4	ug/L	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	2	ug/L	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Carbonic acid, dipentyl ester T	1	ug/L	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Decane, 3,3,4-trimethyl- T	6	ug/L	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		1-Hexene, 4,5-dimethyl- T	3	ug/L	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Pentane, 2,3,4-trimethyl- T	1	ug/L	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Nonanoic acid T	1	ug/L	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		Triphenylphosphine oxide T	1	ug/L	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$625		TOTAL AMOUNT	603	ug/L	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$ICP		Aluminum	0.949	mg/L	0.348
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$ICP		Antimony	0.00	mg/L	0.006
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$ICP		Arsenic	0.00	mg/L	0.012
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$ICP		Barium	0.0489	mg/L	0.003
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$ICP		Beryllium	0.00	mg/L	0.009
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$ICP		Cadmium	0.00	mg/L	0.012
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$ICP		Calcium	58.2	mg/L	0.066
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$ICP		Chromium	0.00	mg/L	0.006
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$ICP		Cobalt	0.00	mg/L	0.006
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$ICP		Copper	0.00681	mg/L	0.006
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$ICP		Iron	1.70	mg/L	0.018
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$ICP		Lead	0.00	mg/L	0.006
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$ICP		Magnesium	17.9	mg/L	0.021
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$ICP		Manganese	0.108	mg/L	0.009
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$ICP		Nickel	0.00	mg/L	0.003
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$ICP		Selenium	0.0208	mg/L	0.009
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$ICP		Silver	0.00	mg/L	0.003
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$ICP		Strontium	0.222	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$ICP	Thallium	0.00	mg/L	0.012
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$ICP	Tin	0.00	mg/L	0.006
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	\$ICP	Zinc	0.0114	mg/L	0.006
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	HARD	Hardness as CaCO3	216	mg/l	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	HG1631	Mercury (Low Level)	2.98	ng/L	5
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	E-COLI	E.coli (Colilert)	866	MPN	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	SSC	Suspended Sediment Concentration	22.9	mg/L	5.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	CL	Chloride	63.2	mg/L	1.00
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	SO4	Sulfate	38.5	mg/L	12.5
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	NO2	Nitrite as N	0.0112	mg/l	0.005
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	NO3	Nitrate as N (calculated)	1.4888	mg/l	
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	PB_FU	Lead by Furnace	2.1	ug/L	1.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	AS_FU	Arsenic by Furnace	2.3	ug/L	1.0
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07993	3261-04	Little Miami River	4	10/3/2012	11:15	CU_FU	Copper by Furnace	4.4	ug/L	1
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	TSS	Tot. Suspended Solids	46	mg/L	2
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	COD	COD	18	mg/L	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	TDS	Total Dissolved Solids	410	mg/L	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	CBOD	Carbonaceous Biochemical Oxygen Demand	2	mg/L	2
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	MF_CF	Fecal Coliform, Membrane Filter	530	CFU/100mL	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624	Bromochloromethane	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624	Chloromethane	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624	Vinyl Chloride	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624	Bromomethane	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624	Chloroethane	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624	Trichlorofluoromethane	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624	Acrolein	AW	ug/L	100.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624	1,1-Dichloroethene	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624	Acrylonitrile	AW	ug/L	100.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624	Methylene Chloride	AW	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		Trans-1,2-Dichloroethene	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		1,1-Dichloroethane	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		Chloroform	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		2-Bromo,1-Chloropropane	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		1,2-Dichloroethane	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		1,2-Dichloroethane-d4	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		1,1,1-Trichloroethane	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		Carbon Tetrachloride	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		Benzene	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		Trichloroethene	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		2-Chloroethylvinylether	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		1,2-Dichloropropane	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		Bromodichloromethane	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		cis-1,3-Dichloropropene	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		trans-1,3-Dichloropropene	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		1,1,2-Trichloroethane	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		Dibromochloromethane	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		Bromoform	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		1,4-Dichlorobutane	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		Tetrachloroethene	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		1,1,2,2-Tetrachloroethane	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		Toluene	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		Toluene-d8	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		Chlorobenzene	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		Ethylbenzene	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		Bromofluorobenzene	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		1,3-Dichlorobenzene	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		1,4-Dichlorobenzene	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		1,2-Dichlorobenzene	AW	ug/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		2-Propanone	AW	ug/L	60
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$624		2-Butanone	AW	ug/L	60
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	NH3		Ammonia as N	0	mg/L	0.5
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	NO3NO2		Nitrate + Nitrite	2.09	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	TKN	Total Kjeldahl Nitrogen	.3988	mg/L	0.5
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	TKP	Total Kjeldahl Phosphorus	0.4062	mg/L	0.5
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	O&G	O&G Total	0.26	mg/L	5
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	CN	Cyanide	0.0012	mg/L	0.005
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	CN_A	Cyanide Amenable	AW	mg/L	0.005
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	CN_F	Cyanide Free	AW	mg/L	0.005
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	pyridine	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	2-Fluorophenol	20.2	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	aniline	0	ug/L	6.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	Phenol-d6	18.7	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	Phenol	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	2-Chlorophenol	0	ug/L	6.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	n-decane	0	ug/L	6.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	o-cresol	0	ug/L	6.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	acetophenone	0	ug/L	6.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	Hexachloroethane	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	Nitrobenzene-d5	53.8	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	p-cresol	0	ug/L	6.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	Nitrobenzene	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	Isophorone	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	Decafluorobiphenyl	43.7	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	2-Nitrophenol	0	ug/L	6.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625	Naphthalene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		1-Fluoronaphthalene	47.0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		alpha terpineol	0	ug/L	6.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Acenaphthylene	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Acenaphthene	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		4-Nitrophenol	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Diethyl phthalate	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Fluorene	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		2,4,6-Tribromophenol	35.8	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Pentachlorophenol	0	ug/L	6.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		n-octadecane	0	ug/L	6.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Phenanthrene	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Anthracene	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		carbazole	0	ug/L	6.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Fluoranthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Benzidine	0	ug/L	6.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Pyrene	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Chrysene	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Perylene-D12	50.0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Hexachloroethane	0	ug/L	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		2,3-Dichloroaniline	0	ug/L	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Diethylphthalate	0	ug/L	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Benzo[ghi]perylene	0	ug/L	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		2-Butenal T	1	ug/L	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		2-Hexene, 2,5,5-trimethyl- T	5	ug/L	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		2-Hexene, 3,5,5-trimethyl- T	1	ug/L	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	14	ug/L	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	2	ug/L	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Pentane, 2,3,4-trimethyl- T	1	ug/L	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Pentane, 2,3,4-trimethyl- T2	7	ug/L	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Octane, 3-methyl-6-methylene- T	3	ug/L	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Heptane, 3,3,4-trimethyl- T	1	ug/L	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Cyclopentasiloxane, decamethyl- T	1	ug/L	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		Triphenylphosphine oxide T	1	ug/L	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$625		TOTAL AMOUNT	557	ug/L	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$ICP		Aluminum	0.692	mg/L	0.348
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$ICP		Antimony	0.00	mg/L	0.006
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$ICP		Arsenic	0.00	mg/L	0.012
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$ICP		Barium	0.0610	mg/L	0.003
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$ICP		Beryllium	0.00	mg/L	0.009
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$ICP		Cadmium	0.00	mg/L	0.012
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$ICP		Calcium	66.7	mg/L	0.066
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$ICP		Chromium	0.00	mg/L	0.006
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$ICP		Cobalt	0.00	mg/L	0.006
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$ICP		Copper	0.00711	mg/L	0.006
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$ICP		Iron	1.21	mg/L	0.018
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$ICP		Lead	0.00	mg/L	0.006
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$ICP		Magnesium	23.0	mg/L	0.021
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$ICP		Manganese	0.0691	mg/L	0.009
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$ICP		Nickel	0.00	mg/L	0.003
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$ICP		Selenium	0.0164	mg/L	0.009
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$ICP		Silver	0.00	mg/L	0.003
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$ICP		Strontium	0.281	mg/L	0.009
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$ICP		Thallium	0.00	mg/L	0.012
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$ICP		Tin	0.00	mg/L	0.006
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$ICP		Vanadium	0.00	mg/L	0.018
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	\$ICP		Zinc	0.0125	mg/L	0.006
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	HARD		Hardness as CaCO3	242	mg/l	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	HG1631		Mercury (Low Level)	3.42	ng/L	5
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	E-COLI		E.coli (Colilert)	613	MPN	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	SSC		Suspended Sediment Concentration	26.9	mg/L	5.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	BOD		Biochemical Oxygen Demand	2	mg/L	2
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	CL		Chloride	90.6	mg/L	1.00
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	SO4		Sulfate	46.5	mg/L	12.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	CHLOROPHYLL	Chlorophyll	8.01	mg/m3	1.00
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	NO2	Nitrite as N	0.0157	mg/l	0.005
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	NO3	Nitrate as N (calculated)	2.0743	mg/l	
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	PB_FU	Lead by Furnace	1.5	ug/L	1.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	AS_FU	Arsenic by Furnace	2.1	ug/L	1.0
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07994	3261-05	Little Miami River	5	10/3/2012	13:15	CU_FU	Copper by Furnace	5.3	ug/L	1
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	TSS	Tot. Suspended Solids	28	mg/L	2
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	COD	COD	23	mg/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	TDS	Total Dissolved Solids	420	mg/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	CBOD	Carbonaceous Biochemical Oxygen Demand	2	mg/L	2
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	MF_CF	Fecal Coliform, Membrane Filter	570	CFU/100mL	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624	Bromochloromethane	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624	Chloromethane	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624	Vinyl Chloride	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624	Bromomethane	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624	Chloroethane	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624	Trichlorofluoromethane	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624	Acrolein	AW	ug/L	100.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624	1,1-Dichloroethene	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624	Acrylonitrile	AW	ug/L	100.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624	Methylene Chloride	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624	Trans-1,2-Dichloroethene	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624	1,1-Dichloroethane	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624	Chloroform	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624	2-Bromo,1-Chloropropane	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624	1,2-Dichloroethane	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624	1,2-Dichloroethane-d4	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624	1,1,1-Trichloroethane	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624	Carbon Tetrachloride	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624	Benzene	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624	Trichloroethene	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624	2-Chloroethylvinylether	AW	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624		1,2-Dichloropropane	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624		Bromodichloromethane	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624		cis-1,3-Dichloropropene	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624		trans-1,3-Dichloropropene	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624		1,1,2-Trichloroethane	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624		Dibromochloromethane	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624		Bromoform	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624		1,4-Dichlorobutane	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624		Tetrachloroethene	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624		1,1,2,2-Tetrachloroethane	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624		Toluene	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624		Toluene-d8	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624		Chlorobenzene	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624		Ethylbenzene	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624		Bromofluorobenzene	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624		1,3-Dichlorobenzene	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624		1,4-Dichlorobenzene	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624		1,2-Dichlorobenzene	AW	ug/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624		2-Propanone	AW	ug/L	60
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$624		2-Butanone	AW	ug/L	60
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30		NH3	Ammonia as N	0	mg/L	0.5
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30		NO3NO2	Nitrate + Nitrite	1.59	mg/L	0.5
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30		TKN	Total Kjeldahl Nitrogen	.3827	mg/L	0.5
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30		TKP	Total Kjeldahl Phosphorus	0.3733	mg/L	0.5
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30		O&G	O&G Total	0.0	mg/L	5
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30		CN	Cyanide	0.0015	mg/L	0.005
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30		CN_A	Cyanide Amenable	AW	mg/L	0.005
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30		CN_F	Cyanide Free	AW	mg/L	0.005
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		pyridine	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		2-Fluorophenol	23.9	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		aniline	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Phenol-d6	15.2	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Phenol	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		n-decane	0	ug/L	6.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		o-cresol	0	ug/L	6.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		acetophenone	0	ug/L	6.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Hexachloroethane	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Nitrobenzene-d5	44.0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		p-cresol	0	ug/L	6.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Nitrobenzene	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Isophorone	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Decafluorobiphenyl	37.5	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Naphthalene	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		1-Fluoronaphthalene	39.4	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		alpha terpineol	0	ug/L	6.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Acenaphthylene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Acenaphthene	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		4-Nitrophenol	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Diethyl phthalate	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Fluorene	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		2,4,6-Tribromophenol	39.8	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Pentachlorophenol	0	ug/L	6.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		n-octadecane	0	ug/L	6.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Phenanthrene	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Anthracene	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		carbazole	0	ug/L	6.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Fluoranthene	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Benzidine	0	ug/L	6.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Pyrene	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Chrysene	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Hexachloroethane	0	ug/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Diethylphthalate	0	ug/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		trans-2,3-Epoxy-nonane T	1	ug/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Cyclopentane, 1,3-dimethyl- T	1	ug/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		2-Hexene, 2,5,5-trimethyl- T	5	ug/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		2-Hexene, 3,5,5-trimethyl- T	1	ug/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	10	ug/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	2	ug/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		2,4,4-Trimethyl-1-hexene T	1	ug/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Pentane, 2,3,4-trimethyl- T	6	ug/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		1-Octene, 3-ethyl- T	3	ug/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Decane, 3,3,4-trimethyl- T	1	ug/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Cyclopentasiloxane, decamethyl- T	1	ug/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		Triphenylphosphine oxide T	1	ug/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$625		TOTAL AMOUNT	534	ug/L	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$ICP		Aluminum	0.552	mg/L	0.348
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$ICP		Antimony	0.00	mg/L	0.006
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$ICP		Arsenic	0.00	mg/L	0.012
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$ICP		Barium	0.0569	mg/L	0.003
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$ICP		Beryllium	0.00	mg/L	0.009
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$ICP		Cadmium	0.00	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$ICP	Calcium	62.0	mg/L	0.066
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$ICP	Chromium	0.00	mg/L	0.006
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$ICP	Copper	0.00758	mg/L	0.006
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$ICP	Iron	0.976	mg/L	0.018
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$ICP	Lead	0.00	mg/L	0.006
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$ICP	Magnesium	20.8	mg/L	0.021
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$ICP	Manganese	0.0577	mg/L	0.009
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$ICP	Nickel	0.00	mg/L	0.003
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$ICP	Selenium	0.0167	mg/L	0.009
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$ICP	Silver	0.00	mg/L	0.003
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$ICP	Strontium	0.265	mg/L	0.009
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$ICP	Thallium	0.00	mg/L	0.012
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$ICP	Tin	0.00	mg/L	0.006
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	\$ICP	Zinc	0.0103	mg/L	0.006
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	HARD	Hardness as CaCO3	242	mg/l	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	HG1631	Mercury (Low Level)	3.2	ng/L	5
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	E-COLI	E.coli (Colilert)	866	MPN	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	SSC	Suspended Sediment Concentration	21.1	mg/L	5.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	CL	Chloride	82.2	mg/L	1.00
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	SO4	Sulfate	44.0	mg/L	12.5
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	CHLOROPHYLL	Chlorophyll	8.01	mg/m3	1.00
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	NO2	Nitrite as N	0.0150	mg/l	0.005
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	MS2-HG1631	2nd Matrix Spike for HG1631	10.7	ppt	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	NO3	Nitrate as N (calculated)	1.5750	mg/l	
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	PB_FU	Lead by Furnace	1.2	ug/L	1.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	AS_FU	Arsenic by Furnace	2.1	ug/L	1.0
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07995	3261-06	Little Miami River	6	10/3/2012	13:30	CU_FU	Copper by Furnace	4.3	ug/L	1
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	TSS	Tot. Suspended Solids	18	mg/L	2
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	COD	COD	23	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	TDS	Total Dissolved Solids	350	mg/L	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	CBOD	Carbonaceous Biochemical Oxygen Demand	2	mg/L	2
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	MF_CF	Fecal Coliform, Membrane Filter	340	CFU/100mL	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	Bromochloromethane	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	Chloromethane	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	Vinyl Chloride	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	Bromomethane	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	Chloroethane	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	Trichlorofluoromethane	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	Acrolein	AW	ug/L	100.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	1,1-Dichloroethene	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	Acrylonitrile	AW	ug/L	100.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	Methylene Chloride	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	Trans-1,2-Dichloroethene	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	1,1-Dichloroethane	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	Chloroform	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	2-Bromo,1-Chloropropane	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	1,2-Dichloroethane	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	1,2-Dichloroethane-d4	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	1,1,1-Trichloroethane	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	Carbon Tetrachloride	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	Benzene	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	Trichloroethene	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	2-Chloroethylvinylether	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	1,2-Dichloropropane	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	Bromodichloromethane	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	cis-1,3-Dichloropropene	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	trans-1,3-Dichloropropene	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	1,1,2-Trichloroethane	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	Dibromochloromethane	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	Bromoform	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	1,4-Dichlorobutane	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	Tetrachloroethene	AW	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	1,1,2,2-Tetrachloroethane	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	Toluene	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	Toluene-d8	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	Chlorobenzene	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	Ethylbenzene	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	Bromofluorobenzene	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	1,3-Dichlorobenzene	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	1,4-Dichlorobenzene	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	1,2-Dichlorobenzene	AW	ug/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	2-Propanone	AW	ug/L	60
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$624	2-Butanone	AW	ug/L	60
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	NH3	Ammonia as N	0	mg/L	0.5
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	NO3NO2	Nitrate + Nitrite	1.41	mg/L	0.5
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	TKN	Total Kjeldahl Nitrogen	.5024	mg/L	0.5
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	TKP	Total Kjeldahl Phosphorus	0.3485	mg/L	0.5
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	O&G	O&G Total	0.0	mg/L	5
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	CN	Cyanide	0.0000	mg/L	0.005
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	CN_A	Cyanide Amenable	AW	mg/L	0.005
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	CN_F	Cyanide Free	AW	mg/L	0.005
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625	pyridine	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625	2-Fluorophenol	28.7	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625	aniline	0	ug/L	6.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625	Phenol-d6	19.0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625	Phenol	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625	2-Chlorophenol	0	ug/L	6.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625	n-decane	0	ug/L	6.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625	o-cresol	0	ug/L	6.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625	acetophenone	0	ug/L	6.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Hexachloroethane	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Nitrobenzene-d5	52.5	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		p-cresol	0	ug/L	6.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Nitrobenzene	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Isophorone	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Decafluorobiphenyl	40.8	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		2-Nitrophenol	0	ug/L	6.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Naphthalene	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		1-Fluoronaphthalene	46.5	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		alpha terpineol	0	ug/L	6.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Acenaphthylene	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Acenaphthene	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		4-Nitrophenol	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Diethyl phthalate	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Fluorene	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Phenanthrene-D10	50.0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		2,4,6-Tribromophenol	54.4	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Pentachlorophenol	0	ug/L	6.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		n-octadecane	0	ug/L	6.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Phenanthrene	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Anthracene	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		carbazole	0	ug/L	6.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Fluoranthene	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Benzidine	0	ug/L	6.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Pyrene	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Chrysene	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Perylene-D12	50.0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Hexachloroethane	0	ug/L	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		2,3-Dichloroaniline	0	ug/L	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Diethylphthalate	0	ug/L	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Benzo[ghi]perylene	0	ug/L	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Hexane, 1-(hexyloxy)-4-methyl- T	1	ug/L	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		2-Hexene, 2,5,5-trimethyl- T	6	ug/L	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		2-Hexene, 3,5,5-trimethyl- T	2	ug/L	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Propane, 1-ethoxy-2-methyl- T	4	ug/L	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	2	ug/L	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		2,4,4-Trimethyl-1-hexene T	1	ug/L	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Decane, 3,3,4-trimethyl- T	7	ug/L	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Octane, 3-methyl-6-methylene- T	3	ug/L	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		3,3-Dimethyl-2-pentanol T	1	ug/L	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Cyclopentasiloxane, decamethyl- T	1	ug/L	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		Triphenylphosphine oxide T	1	ug/L	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$625		TOTAL AMOUNT	571	ug/L	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$ICP		Aluminum	0.407	mg/L	0.348
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$ICP		Antimony	0.00	mg/L	0.006
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$ICP		Arsenic	0.00	mg/L	0.012
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$ICP		Barium	0.0550	mg/L	0.003
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$ICP		Beryllium	0.00	mg/L	0.009
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$ICP		Cadmium	0.00	mg/L	0.012
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$ICP		Calcium	61.7	mg/L	0.066
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$ICP		Chromium	0.00	mg/L	0.006
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$ICP		Cobalt	0.00	mg/L	0.006
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$ICP		Copper	0.00636	mg/L	0.006
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$ICP		Iron	0.706	mg/L	0.018
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$ICP		Lead	0.00	mg/L	0.006
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$ICP		Magnesium	20.7	mg/L	0.021
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$ICP		Manganese	0.0392	mg/L	0.009
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$ICP		Nickel	0.00	mg/L	0.003
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$ICP		Selenium	0.0207	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$ICP	Silver	0.00	mg/L	0.003
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$ICP	Strontium	0.248	mg/L	0.009
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$ICP	Thallium	0.00	mg/L	0.012
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$ICP	Tin	0.00	mg/L	0.006
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$ICP	Vanadium	0.00	mg/L	0.018
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	\$ICP	Zinc	0.00900	mg/L	0.006
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	HARD	Hardness as CaCO3	244	mg/l	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	HG1631	Mercury (Low Level)	2.58	ng/L	5
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	E-COLI	E.coli (Colilert)	548	MPN	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	SSC	Suspended Sediment Concentration	16.4	mg/L	5.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	CL	Chloride	78.0	mg/L	1.00
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	SO4	Sulfate	46.0	mg/L	12.5
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	NO2	Nitrite as N	0.0145	mg/l	0.005
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	NO3	Nitrate as N (calculated)	1.3955	mg/l	
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	PB_FU	Lead by Furnace	AA	ug/L	1.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	AS_FU	Arsenic by Furnace	2.2	ug/L	1.0
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07996	3261-07	Little Miami River	7	10/3/2012	13:40	CU_FU	Copper by Furnace	3.9	ug/L	1
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	TSS	Tot. Suspended Solids	16	mg/L	2
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	COD	COD	21	mg/L	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	TDS	Total Dissolved Solids	380	mg/L	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	CBOD	Carbonaceous Biochemical Oxygen Demand	2	mg/L	2
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	MF_CF	Fecal Coliform, Membrane Filter	480	CFU/100mL	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624	Bromochloromethane	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624	Chloromethane	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624	Vinyl Chloride	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624	Bromomethane	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624	Chloroethane	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624	Trichlorofluoromethane	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624	Acrolein	AW	ug/L	100.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624	1,1-Dichloroethene	AW	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		Acrylonitrile	AW	ug/L	100.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		Methylene Chloride	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		Trans-1,2-Dichloroethene	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		1,1-Dichloroethane	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		Chloroform	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		2-Bromo,1-Chloropropane	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		1,2-Dichloroethane	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		1,2-Dichloroethane-d4	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		1,1,1-Trichloroethane	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		Carbon Tetrachloride	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		Benzene	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		Trichloroethene	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		2-Chloroethylvinylether	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		1,2-Dichloropropane	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		Bromodichloromethane	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		cis-1,3-Dichloropropene	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		trans-1,3-Dichloropropene	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		1,1,2-Trichloroethane	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		Dibromochloromethane	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		Bromoform	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		1,4-Dichlorobutane	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		Tetrachloroethene	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		1,1,2,2-Tetrachloroethane	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		Toluene	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		Toluene-d8	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		Chlorobenzene	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		Ethylbenzene	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		Bromofluorobenzene	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		1,3-Dichlorobenzene	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		1,4-Dichlorobenzene	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		1,2-Dichlorobenzene	AW	ug/L	5.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		2-Propanone	AW	ug/L	60
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$624		2-Butanone	AW	ug/L	60

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	NH3	Ammonia as N	0	mg/L	0.5
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	NO3NO2	Nitrate + Nitrite	1.22	mg/L	0.5
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	TKN	Total Kjeldahl Nitrogen	.4820	mg/L	0.5
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	TKP	Total Kjeldahl Phosphorus	0.3329	mg/L	0.5
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	O&G	O&G Total	0.0	mg/L	5
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	CN	Cyanide	0.0000	mg/L	0.005
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	CN_A	Cyanide Amenable	AW	mg/L	0.005
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	CN_F	Cyanide Free	AW	mg/L	0.005
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	pyridine	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	2-Fluorophenol	21.7	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	aniline	62.7	ug/L	6.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Phenol-d6	15.7	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Phenol	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	2-Chlorophenol	0	ug/L	6.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	n-decane	0	ug/L	6.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	o-cresol	0	ug/L	6.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	acetophenone	0	ug/L	6.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Hexachloroethane	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Nitrobenzene-d5	44.2	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	p-cresol	0	ug/L	6.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Nitrobenzene	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Isophorone	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Decafluorobiphenyl	35.3	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	2-Nitrophenol	0	ug/L	6.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	2,4-Dichlorophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Naphthalene	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	1-Fluoronaphthalene	40.8	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	alpha terpineol	0	ug/L	6.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Acenaphthylene	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Acenaphthene	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	4-Nitrophenol	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Diethyl phthalate	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Fluorene	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	2,4,6-Tribromophenol	44.9	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Hexachlorobenzene	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Pentachlorophenol	0	ug/L	6.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	n-octadecane	0	ug/L	6.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Phenanthrene	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Anthracene	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	carbazole	0	ug/L	6.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Fluoranthene	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Benzidine	0	ug/L	6.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Pyrene	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Chrysene	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Perylene-D12	50.0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Hexachloroethane	0	ug/L	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		2,3-Dichloroaniline	0	ug/L	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Diethylphthalate	0	ug/L	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Benzo[ghi]perylene	0	ug/L	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		2-Hexene, 2,5,5-trimethyl- T	5	ug/L	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	3	ug/L	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		2-Butenal, 3-methyl- T	2	ug/L	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Decane, 3,3,4-trimethyl- T	7	ug/L	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Octane, 3-methyl-6-methylene- T	3	ug/L	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625		Benzene, isocyanato- T	6	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Benzenamine, 2-methoxy- T	6	ug/L	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	1-Dodecanamine, N,N-dimethyl- T	2	ug/L	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	n-Hexadecanoic acid T	9	ug/L	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexac T	3	ug/L	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Octadecanoic acid T	2	ug/L	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	Oxazolam T	4	ug/L	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$625	TOTAL AMOUNT	617	ug/L	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$ICP	Aluminum	0.513	mg/L	0.348
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$ICP	Antimony	0.00	mg/L	0.006
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$ICP	Barium	0.0588	mg/L	0.003
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$ICP	Calcium	64.8	mg/L	0.066
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$ICP	Chromium	0.00	mg/L	0.006
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$ICP	Copper	0.00677	mg/L	0.006
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$ICP	Iron	0.881	mg/L	0.018
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$ICP	Lead	0.00	mg/L	0.006
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$ICP	Magnesium	21.8	mg/L	0.021
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$ICP	Manganese	0.0498	mg/L	0.009
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$ICP	Nickel	0.00	mg/L	0.003
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$ICP	Selenium	0.0246	mg/L	0.009
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$ICP	Silver	0.00	mg/L	0.003
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$ICP	Strontium	0.258	mg/L	0.009
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$ICP	Thallium	0.00	mg/L	0.012
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$ICP	Tin	0.00	mg/L	0.006
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	\$ICP	Zinc	0.00910	mg/L	0.006
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	HARD	Hardness as CaCO3	236	mg/l	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	HG1631	Mercury (Low Level)	2.93	ng/L	5
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	E-COLI	E.coli (Colilert)	613	MPN	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	SSC	Suspended Sediment Concentration	18.9	mg/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	CL	Chloride	76.4	mg/L	1.00
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	SO4	Sulfate	42.0	mg/L	12.5
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	CHLOROPHYLL	Chlorophyll	5.34	mg/m3	1.00
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	NO2	Nitrite as N	0.0110	mg/l	0.005
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	NO3	Nitrate as N (calculated)	1.2090	mg/l	
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	PB_FU	Lead by Furnace	1.1	ug/L	1.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	AS_FU	Arsenic by Furnace	2.2	ug/L	1.0
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07997	3261-08	Little Miami River	8	10/3/2012	14:00	CU_FU	Copper by Furnace	4.3	ug/L	1
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	TSS	Tot. Suspended Solids	16	mg/L	2
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	COD	COD	7	mg/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	TDS	Total Dissolved Solids	280	mg/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	CBOD	Carbonaceous Biochemical Oxygen Demand	2	mg/L	2
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	MF_CF	Fecal Coliform, Membrane Filter	767	CFU/100mL	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624	Bromochloromethane	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624	Chloromethane	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624	Vinyl Chloride	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624	Bromomethane	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624	Chloroethane	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624	Trichlorofluoromethane	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624	Acrolein	AW	ug/L	100.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624	1,1-Dichloroethene	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624	Acrylonitrile	AW	ug/L	100.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624	Methylene Chloride	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624	Trans-1,2-Dichloroethene	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624	1,1-Dichloroethane	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624	Chloroform	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624	2-Bromo,1-Chloropropane	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624	1,2-Dichloroethane	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624	1,2-Dichloroethane-d4	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624	1,1,1-Trichloroethane	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624	Carbon Tetrachloride	AW	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624		Benzene	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624		Trichloroethene	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624		2-Chloroethylvinylether	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624		1,2-Dichloropropane	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624		Bromodichloromethane	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624		cis-1,3-Dichloropropene	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624		trans-1,3-Dichloropropene	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624		1,1,2-Trichloroethane	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624		Dibromochloromethane	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624		Bromoform	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624		1,4-Dichlorobutane	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624		Tetrachloroethene	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624		1,1,2,2-Tetrachloroethane	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624		Toluene	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624		Toluene-d8	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624		Chlorobenzene	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624		Ethylbenzene	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624		Bromofluorobenzene	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624		1,3-Dichlorobenzene	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624		1,4-Dichlorobenzene	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624		1,2-Dichlorobenzene	AW	ug/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624		2-Propanone	AW	ug/L	60
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$624		2-Butanone	AW	ug/L	60
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	NH3		Ammonia as N	0	mg/L	0.5
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	NO3NO2		Nitrate + Nitrite	1.32	mg/L	0.5
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	TKN		Total Kjeldahl Nitrogen	.6804	mg/L	0.5
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	TKP		Total Kjeldahl Phosphorus	0.4306	mg/L	0.5
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	O&G		O&G Total	0.53	mg/L	5
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	CN		Cyanide	0.0000	mg/L	0.005
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	CN_A		Cyanide Amenable	AW	mg/L	0.005
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	CN_F		Cyanide Free	AW	mg/L	0.005
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		pyridine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		2-Fluorophenol	24.2	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		aniline	0	ug/L	6.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Phenol-d6	18.2	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Phenol	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		2-Chlorophenol	0	ug/L	6.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		n-decane	0	ug/L	6.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		o-cresol	0	ug/L	6.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		acetophenone	0	ug/L	6.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Hexachloroethane	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Nitrobenzene-d5	48.6	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		p-cresol	0	ug/L	6.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Nitrobenzene	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Isophorone	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Decafluorobiphenyl	38.0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		2-Nitrophenol	0	ug/L	6.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Naphthalene	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		1-Fluoronaphthalene	42.6	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		alpha terpineol	0	ug/L	6.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Dimethyl phthalate	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Acenaphthylene	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Acenaphthene	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		4-Nitrophenol	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Diethyl phthalate	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Fluorene	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		2,4,6-Tribromophenol	46.8	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Pentachlorophenol	0	ug/L	6.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		n-octadecane	0	ug/L	6.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Phenanthrene	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Anthracene	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		carbazole	0	ug/L	6.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Fluoranthene	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Benzidine	0	ug/L	6.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Pyrene	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Chrysene	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Perylene-D12	50.0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Hexachloroethane	0	ug/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		2,3-Dichloroaniline	0	ug/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Diethylphthalate	0	ug/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Benzo[b]fluoranthene	0	ug/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Benzo[k]fluoranthene	0	ug/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Benzo[ghi]perylene	0	ug/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		2-Hexene, 3,5,5-trimethyl- T	4	ug/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		2-Hexene, 3,5,5-trimethyl- T2	1	ug/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	2	ug/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Decane, 3,3,4-trimethyl- T	5	ug/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		1-Octene, 3-ethyl- T	2	ug/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Benzoxazole T	1	ug/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Aniline T2	2	ug/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Cyclopentasiloxane, decamethyl- T	1	ug/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		1-Propyl-1-hydridotetrachlorocyclotrip T	1	ug/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		Formylmethylenetriphenylphosphorane T	1	ug/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		N-(p-Bromophenyl)selenoacetamide T	1	ug/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		2-(2-Furyl)-7-methyl-4-quinolinecarbox T	2	ug/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$625		TOTAL AMOUNT	542	ug/L	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$ICP		Aluminum	0.492	mg/L	0.348
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$ICP		Antimony	0.00	mg/L	0.006
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$ICP		Arsenic	0.00	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$ICP	Barium	0.0356	mg/L	0.003
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$ICP	Calcium	50.0	mg/L	0.066
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$ICP	Chromium	0.00	mg/L	0.006
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$ICP	Cobalt	0.00	mg/L	0.006
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$ICP	Copper	0.00844	mg/L	0.006
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$ICP	Iron	0.589	mg/L	0.018
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$ICP	Lead	0.00781	mg/L	0.006
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$ICP	Magnesium	11.7	mg/L	0.021
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$ICP	Manganese	0.0305	mg/L	0.009
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$ICP	Nickel	0.00	mg/L	0.003
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$ICP	Selenium	0.0250	mg/L	0.009
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$ICP	Silver	0.00	mg/L	0.003
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$ICP	Strontium	0.202	mg/L	0.009
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$ICP	Thallium	0.00	mg/L	0.012
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$ICP	Tin	0.00	mg/L	0.006
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	\$ICP	Zinc	0.00796	mg/L	0.006
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	HARD	Hardness as CaCO3	196	mg/l	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	HG1631	Mercury (Low Level)	2.71	ng/L	5
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	E-COLI	E.coli (Colilert)	866	MPN	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	SSC	Suspended Sediment Concentration	10.2	mg/L	5.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	CL	Chloride	40.5	mg/L	1.00
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	SO4	Sulfate	45.0	mg/L	12.5
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	NO2	Nitrite as N	0.0098	mg/l	0.005
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	NO3	Nitrate as N (calculated)	1.3102	mg/l	
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	PB_FU	Lead by Furnace	AA	ug/L	1.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	AS_FU	Arsenic by Furnace	2.2	ug/L	1.0
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07998	3261-09	Little Miami River	9	10/3/2012	14:15	CU_FU	Copper by Furnace	4.3	ug/L	1



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	TSS	Tot. Suspended Solids	30	mg/L	2
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	COD	COD	5	mg/L	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	TDS	Total Dissolved Solids	210	mg/L	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	CBOD	Carbonaceous Biochemical Oxygen Demand	2	mg/L	2
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	MF_CF	Fecal Coliform, Membrane Filter	560	CFU/100mL	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	Bromochloromethane	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	Chloromethane	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	Vinyl Chloride	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	Bromomethane	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	Chloroethane	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	Trichlorofluoromethane	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	Acrolein	AW	ug/L	100.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	1,1-Dichloroethene	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	Acrylonitrile	AW	ug/L	100.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	Methylene Chloride	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	Trans-1,2-Dichloroethene	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	1,1-Dichloroethane	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	Chloroform	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	2-Bromo,1-Chloropropane	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	1,2-Dichloroethane	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	1,2-Dichloroethane-d4	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	1,1,1-Trichloroethane	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	Carbon Tetrachloride	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	Benzene	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	Trichloroethene	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	2-Chloroethylvinylether	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	1,2-Dichloropropane	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	Bromodichloromethane	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	cis-1,3-Dichloropropene	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	trans-1,3-Dichloropropene	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	1,1,2-Trichloroethane	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	Dibromochloromethane	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	Bromoform	AW	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	1,4-Dichlorobutane	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	Tetrachloroethene	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	1,1,2,2-Tetrachloroethane	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	Toluene	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	Toluene-d8	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	Chlorobenzene	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	Ethylbenzene	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	Bromofluorobenzene	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	1,3-Dichlorobenzene	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	1,4-Dichlorobenzene	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	1,2-Dichlorobenzene	AW	ug/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	2-Propanone	AW	ug/L	60
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$624	2-Butanone	AW	ug/L	60
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	NH3	Ammonia as N	0	mg/L	0.5
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	NO3NO2	Nitrate + Nitrite	0.846	mg/L	0.5
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	TKN	Total Kjeldahl Nitrogen	.7425	mg/L	0.5
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	TKP	Total Kjeldahl Phosphorus	0.3401	mg/L	0.5
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	O&G	O&G Total	0.0	mg/L	5
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	CN	Cyanide	0.0000	mg/L	0.005
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	CN_A	Cyanide Amenable	AW	mg/L	0.005
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	CN_F	Cyanide Free	AW	mg/L	0.005
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	pyridine	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	2-Fluorophenol	19.8	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	aniline	0	ug/L	6.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Phenol-d6	15.8	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Phenol	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	2-Chlorophenol	0	ug/L	6.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	n-decane	0	ug/L	6.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	o-cresol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	acetophenone	0	ug/L	6.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Hexachloroethane	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Nitrobenzene-d5	49.4	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	p-cresol	0	ug/L	6.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Nitrobenzene	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Isophorone	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Decafluorobiphenyl	41.4	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	2-Nitrophenol	0	ug/L	6.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Naphthalene	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	1-Fluoronaphthalene	44.4	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	alpha terpineol	0	ug/L	6.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Dimethyl phthalate	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Acenaphthylene	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Acenaphthene	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	4-Nitrophenol	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Diethyl phthalate	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		Fluorene	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		2,4,6-Tribromophenol	51.8	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		Hexachlorobenzene	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		Pentachlorophenol	0	ug/L	6.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		n-octadecane	0	ug/L	6.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		Phenanthrene	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		Anthracene	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		carbazole	0	ug/L	6.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		Fluoranthene	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		Benzidine	0	ug/L	6.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		Pyrene	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		Chrysene	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		Perylene-D12	50.0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		Hexachloroethane	0	ug/L	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625		2,3-Dichloroaniline	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Diethylphthalate	0	ug/L	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Benzo[b]fluoranthene	0	ug/L	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Benzo[k]fluoranthene	0	ug/L	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Benzo[ghi]perylene	0	ug/L	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	2-Hexene, 2,5,5-trimethyl- T	5	ug/L	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	2-Hexene, 2,5,5-trimethyl- T2	1	ug/L	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	2	ug/L	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	2	ug/L	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	1-Hexene, 4,5-dimethyl- T	1	ug/L	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Pentane, 2,3,4-trimethyl- T	6	ug/L	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	1-Hexene, 4,5-dimethyl- T2	3	ug/L	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Benzene, isocyanato- T	1	ug/L	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Cyclotetrasiloxane, octamethyl- T	2	ug/L	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	2-Propenal, 3-(2,2,6-trimethyl-7-oxabi T	4	ug/L	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	Triphenylphosphine oxide T	1	ug/L	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	4H-1-Benzopyran, 3-bromo-4,4,5,8-tetra T	3	ug/L	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$625	TOTAL AMOUNT	555	ug/L	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$ICP	Aluminum	4.37	mg/L	0.348
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$ICP	Antimony	1.03	mg/L	0.006
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$ICP	Arsenic	4.28	mg/L	0.012
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$ICP	Barium	3.96	mg/L	0.003
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$ICP	Beryllium	0.103	mg/L	0.009
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$ICP	Cadmium	0.0964	mg/L	0.012
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$ICP	Calcium	275	mg/L	0.066
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$ICP	Chromium	0.408	mg/L	0.006
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$ICP	Cobalt	0.932	mg/L	0.006
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$ICP	Copper	0.573	mg/L	0.006
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$ICP	Iron	2.31	mg/L	0.018
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$ICP	Lead	1.01	mg/L	0.006
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$ICP	Magnesium	28.1	mg/L	0.021

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$ICP	Manganese	1.18	mg/L	0.009
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$ICP	Nickel	1.24	mg/L	0.003
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$ICP	Selenium	4.61	mg/L	0.009
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$ICP	Silver	0.104	mg/L	0.003
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$ICP	Strontium	0.519	mg/L	0.009
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$ICP	Thallium	4.33	mg/L	0.012
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$ICP	Tin	0.174	mg/L	0.006
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$ICP	Vanadium	1.03	mg/L	0.018
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	\$ICP	Zinc	1.07	mg/L	0.006
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	HARD	Hardness as CaCO3	160	mg/l	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	HG1631	Mercury (Low Level)	3.94	ng/L	5
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	E-COLI	E.coli (Colilert)	866	MPN	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	SSC	Suspended Sediment Concentration	17.3	mg/L	5.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	CL	Chloride	22.3	mg/L	1.00
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	SO4	Sulfate	29.8	mg/L	1.00
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	CHLOROPHYLL	Chlorophyll	3.74	mg/m3	1.00
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	NO2	Nitrite as N	0.0087	mg/l	0.005
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	MS2-HG1631	2nd Matrix Spike for HG1631	11.2	ppt	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	NO3	Nitrate as N (calculated)	0.8373	mg/l	
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	PB_FU	Lead by Furnace	1.6	ug/L	1.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	AS_FU	Arsenic by Furnace	2.2	ug/L	1.0
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC07999	3261-10	Little Miami River	10	10/3/2012	13:00	CU_FU	Copper by Furnace	3.0	ug/L	1
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	MF_CF	Fecal Coliform, Membrane Filter	200	CFU/100mL	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	E-COLI	E.coli (Colilert)	205	MPN	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	TDS	Total Dissolved Solids	490	mg/L	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	SO4	Sulfate	94.5	mg/L	25.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	CL	Chloride	256	mg/L	4.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	TSS	Tot. Suspended Solids	8	mg/L	2
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	HARD	Hardness as CaCO3	232	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	COD	COD	5	mg/L	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	754	uS/cm	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	TEMP_FLD	Temperature (Field) Celsius	19.31	Deg C	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	PH_FLD	pH (Field)	7.94	S.U.	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	DO_FLD	Dissolved Oxygen (field) mg/L	8.64	mg/l	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	846	uS/cm	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$ICP	Antimony	0.00686	mg/L	0.006
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$ICP	Barium	0.0246	mg/L	0.003
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$ICP	Calcium	60.5	mg/L	0.066
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$ICP	Chromium	0.00	mg/L	0.006
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$ICP	Copper	0.00642	mg/L	0.006
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$ICP	Iron	0.0680	mg/L	0.018
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$ICP	Lead	0.00756	mg/L	0.006
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$ICP	Magnesium	15.9	mg/L	0.021
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$ICP	Manganese	0.0155	mg/L	0.009
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$ICP	Nickel	0.00	mg/L	0.003
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$ICP	Selenium	0.0221	mg/L	0.009
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$ICP	Silver	0.00	mg/L	0.003
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$ICP	Strontium	0.320	mg/L	0.009
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$ICP	Thallium	0.00	mg/L	0.012
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$ICP	Tin	0.00	mg/L	0.006
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$ICP	Zinc	0.0332	mg/L	0.006
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	PB_FU	Lead by Furnace	0.16	ug/L	1.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	AS_FU	Arsenic by Furnace	0.80	ug/L	1.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	CU_FU	Copper by Furnace	3.6	ug/L	1
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	NH3	Ammonia as N	2.685	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	NO3NO2	Nitrate + Nitrite	2.78	mg/L	0.5
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	TKN	Total Kjeldahl Nitrogen	0.6470	mg/L	0.5
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	TKP	Total Kjeldahl Phosphorus	0.7282	mg/L	0.5
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	NO2	Nitrite as N	0.0575	mg/l	0.005
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	NO3	Nitrate as N (calculated)	2.7225	mg/l	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	CHLOROPHYLL	Chlorophyll	1.78	mg/m3	1.00
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	Aldrin	AA	ug/L	0.02
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	Chlordane	AA	ug/L	0.10
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	Endrin	AA	ug/L	0.02
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	Surr: Decachlorobiphenyl	0.966	%	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$PEST	Surr: Tetrachloro-m-xylene	1.05	%	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		Bromochloromethane	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		Chloromethane	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		Vinyl Chloride	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		Bromomethane	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		Chloroethane	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		Acrolein	0	ug/L	50
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		Acrylonitrile	0	ug/L	100.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		Methylene Chloride	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		Chloroform	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		Benzene	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		Trichloroethene	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		2-Chloroethylvinylether	0	ug/L	50
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		Bromoform	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		Toluene	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624		Toluene-d8	90	ug/L	81

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624	Chlorobenzene	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624	Ethylbenzene	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624	Bromofluorobenzene	96	ug/L	72
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624	2-Propanone	0	ug/L	60
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624	2-Butanone	0	ug/L	60
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$624	Dibromofluoromethane	100	ug/L	83
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	pyridine	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	2-Fluorophenol	32.1	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	aniline	0	ug/L	6.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Phenol-d6	20.8	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Phenol	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	2-Chlorophenol	0	ug/L	6.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	n-decane	0	ug/L	6.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	o-cresol	0	ug/L	6.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	acetophenone	0	ug/L	6.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Hexachloroethane	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Nitrobenzene-d5	59.2	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	p-cresol	0	ug/L	6.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Nitrobenzene	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Isophorone	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Decafluorobiphenyl	51.5	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	2-Nitrophenol	0	ug/L	6.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Naphthalene	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	1-Fluoronaphthalene	54.6	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	alpha terpineol	0	ug/L	6.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Acenaphthylene	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Acenaphthene	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	4-Nitrophenol	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Diethyl phthalate	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Fluorene	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	2,4,6-Tribromophenol	62.8	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Pentachlorophenol	0	ug/L	6.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	n-octadecane	0	ug/L	6.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Phenanthrene	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Anthracene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	carbazole	0	ug/L	6.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Fluoranthene	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Benzidine	0	ug/L	6.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Pyrene	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Chrysene	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Perylene-D12	50.0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Hexachloroethane	0	ug/L	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	2,3-Dichloroaniline	0	ug/L	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Diethylphthalate	0	ug/L	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Benzo[ghi]perylene	0	ug/L	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	2-Hexene, 3,5,5-trimethyl- T	1	ug/L	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	2-Hexene, 2,5,5-trimethyl- T	5	ug/L	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	2-Hexene, 3,5,5-trimethyl- T2	1	ug/L	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	7	ug/L	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	2	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Pentane, 1,1'-oxybis- T	1	ug/L	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Pentane, 2,3,4-trimethyl- T	6	ug/L	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	1,3-Cyclobutanedione, 2,2,4,4-tetramet T	3	ug/L	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Pentane, 2,3,4-trimethyl- T2	1	ug/L	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	7H-Dibenzo[b,g]carbazole, 7-methyl- T	1	ug/L	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	Triphenylphosphine oxide T	1	ug/L	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	2,2',4,4',6,6'-Hexamethylbenzophenone T	2	ug/L	
AC08064	LM52	Little Miami Watershed	52	10/4/2012	08:30	\$625	TOTAL AMOUNT	613	ug/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	MF_CF	Fecal Coliform, Membrane Filter	240	CFU/100mL	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	E-COLI	E.coli (Colilert)	326	MPN	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	TDS	Total Dissolved Solids	340	mg/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	SO4	Sulfate	41.8	mg/L	12.5
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	CL	Chloride	74.5	mg/L	1.00
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	TSS	Tot. Suspended Solids	8	mg/L	2
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	HARD	Hardness as CaCO3	194	mg/l	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	COD	COD	4	mg/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	480	uS/cm	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	TEMP_FLD	Temperature (Field) Celsius	15.68	Deg C	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	PH_FLD	pH (Field)	7.41	S.U.	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	DO_FLD	Dissolved Oxygen (field) mg/L	8.30	mg/l	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	584	uS/cm	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$ICP	Aluminum	0.00	mg/L	0.348
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$ICP	Antimony	0.00661	mg/L	0.006
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$ICP	Arsenic	0.00	mg/L	0.012
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$ICP	Barium	0.0314	mg/L	0.003
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$ICP	Beryllium	0.00	mg/L	0.009
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$ICP	Cadmium	0.00	mg/L	0.012
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$ICP	Calcium	54.9	mg/L	0.066
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$ICP	Chromium	0.00	mg/L	0.006
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$ICP	Cobalt	0.00	mg/L	0.006
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$ICP	Copper	0.00677	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$ICP	Iron	0.137	mg/L	0.018
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$ICP	Lead	0.00733	mg/L	0.006
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$ICP	Magnesium	11.0	mg/L	0.021
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$ICP	Manganese	0.0175	mg/L	0.009
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$ICP	Nickel	0.00	mg/L	0.003
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$ICP	Selenium	0.0175	mg/L	0.009
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$ICP	Silver	0.00	mg/L	0.003
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$ICP	Strontium	0.220	mg/L	0.009
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$ICP	Thallium	0.00	mg/L	0.012
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$ICP	Tin	0.00	mg/L	0.006
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$ICP	Vanadium	0.00	mg/L	0.018
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$ICP	Zinc	0.00956	mg/L	0.006
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	PB_FU	Lead by Furnace	0.11	ug/L	1.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	AS_FU	Arsenic by Furnace	0.94	ug/L	1.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	CU_FU	Copper by Furnace	3.3	ug/L	1
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	NH3	Ammonia as N	0.5584	mg/L	0.5
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	TKN	Total Kjeldahl Nitrogen	0.2432	mg/L	0.5
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	TKP	Total Kjeldahl Phosphorus	0.2840	mg/L	0.5
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	NO2	Nitrite as N	0.0060	mg/l	0.005
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	Aldrin	AA	ug/L	0.02
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	Chlordane	AA	ug/L	0.10
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	Dieldrin	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	Endrin	AA	ug/L	0.02
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	Heptachlor	AA	ug/L	0.02
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	Toxaphene	AA	ug/L	1.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	PCB 1016	AA	ug/L	0.5
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	PCB 1221	AA	ug/L	0.5
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	PCB 1232	AA	ug/L	0.5
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	PCB 1242	AA	ug/L	0.5
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	PCB 1248	AA	ug/L	0.5
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	PCB 1254	AA	ug/L	0.5
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	PCB 1260	AA	ug/L	0.5
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	Surr: Decachlorobiphenyl	0.813	%	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$PEST	Surr: Tetrachloro-m-xylene	0.824	%	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Bromochloromethane	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Chloromethane	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Vinyl Chloride	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Bromomethane	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Chloroethane	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Acrolein	0	ug/L	50
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Acrylonitrile	0	ug/L	100.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Methylene Chloride	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Chloroform	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Benzene	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Trichloroethene	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Bromodichloromethane	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Dibromochloromethane	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Bromoform	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Tetrachloroethene	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Toluene	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Toluene-d8	92	ug/L	81
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Chlorobenzene	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Ethylbenzene	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Bromofluorobenzene	97	ug/L	72
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	2-Propanone	0	ug/L	60
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	2-Butanone	0	ug/L	60
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$624	Dibromofluoromethane	102	ug/L	83
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	pyridine	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	2-Fluorophenol	18.9	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	aniline	0	ug/L	6.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Phenol-d6	14.2	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Phenol	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	2-Chlorophenol	0	ug/L	6.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	n-decane	0	ug/L	6.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	o-cresol	0	ug/L	6.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	acetophenone	0	ug/L	6.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Hexachloroethane	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Nitrobenzene-d5	48.0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	p-cresol	0	ug/L	6.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Nitrobenzene	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Isophorone	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Decafluorobiphenyl	41.6	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	2-Nitrophenol	0	ug/L	6.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Naphthalene	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	1-Fluoronaphthalene	46.0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	alpha terpineol	0	ug/L	6.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Acenaphthylene	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Acenaphthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	4-Nitrophenol	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Diethyl phthalate	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Fluorene	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	2,4,6-Tribromophenol	26.1	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Pentachlorophenol	0	ug/L	6.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	n-octadecane	0	ug/L	6.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Phenanthrene	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Anthracene	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	carbazole	0	ug/L	6.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Fluoranthene	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Benzidine	0	ug/L	6.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Pyrene	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Chrysene	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Perylene-D12	50.0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Benzo(a)pyrene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Hexachloroethane	0	ug/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	2,3-Dichloroaniline	0	ug/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Diethylphthalate	0	ug/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Benzo[ghi]perylene	0	ug/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Cyclopropyl methyl carbinol T	1	ug/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	1,2,4-Cyclopentanetrione, 3,3-dimethyl T	1	ug/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	2-Hexene, 2,5,5-trimethyl- T	6	ug/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	2-Hexene, 3,5,5-trimethyl- T	2	ug/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	8	ug/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	2-Butenal, 3-methyl- T	2	ug/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Undecane, 3,3-dimethyl- T	1	ug/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Decane, 3,3,4-trimethyl- T	7	ug/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	1-Hexene, 4,5-dimethyl- T	3	ug/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Ethanone, 1-(2,2-dimethylcyclopentyl)- T	1	ug/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	Formylmethylenetriphenylphosphorane T	1	ug/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	2-Hydrazino-8-hydroxy-4-phenylquinolin T	2	ug/L	
AC08065	LM51	Little Miami Watershed	51	10/4/2012	08:45	\$625	TOTAL AMOUNT	529	ug/L	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	MF_CF	Fecal Coliform, Membrane Filter	260	CFU/100mL	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	E-COLI	E.coli (Colilert)	517	MPN	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	TDS	Total Dissolved Solids	400	mg/L	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	SO4	Sulfate	44.5	mg/L	12.5
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	CL	Chloride	85.1	mg/L	1.00
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	TSS	Tot. Suspended Solids	12	mg/L	2
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	SSC	Suspended Sediment Concentration	AA	mg/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	HARD	Hardness as CaCO3	228	mg/l	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	COD	COD	5	mg/L	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	553	uS/cm	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	TEMP_FLD	Temperature (Field) Celsius	14.97	Deg C	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	PH_FLD	pH (Field)	7.83	S.U.	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	DO_FLD	Dissolved Oxygen (field) mg/L	9.26	mg/l	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	684	uS/cm	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$ICP	Antimony	0.00	mg/L	0.006
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$ICP	Barium	0.0291	mg/L	0.003
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$ICP	Calcium	63.7	mg/L	0.066
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$ICP	Chromium	0.00	mg/L	0.006
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$ICP	Copper	0.00	mg/L	0.006
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$ICP	Iron	0.346	mg/L	0.018
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$ICP	Lead	0.00788	mg/L	0.006
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$ICP	Magnesium	11.8	mg/L	0.021
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$ICP	Manganese	0.0210	mg/L	0.009
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$ICP	Nickel	0.00	mg/L	0.003
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$ICP	Selenium	0.0117	mg/L	0.009
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$ICP	Silver	0.00	mg/L	0.003
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$ICP	Strontium	0.283	mg/L	0.009
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$ICP	Thallium	0.00	mg/L	0.012
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$ICP	Tin	0.00	mg/L	0.006
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$ICP	Zinc	0.00710	mg/L	0.006
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	PB_FU	Lead by Furnace	0.36	ug/L	1.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	AS_FU	Arsenic by Furnace	1.06	ug/L	1.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	CU_FU	Copper by Furnace	4.1	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	NH3	Ammonia as N	0	mg/L	0.5
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	TKN	Total Kjeldahl Nitrogen	.2431	mg/L	0.5
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	TKP	Total Kjeldahl Phosphorus	0.2935	mg/L	0.5
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	NO2	Nitrite as N	0.0057	mg/l	0.005
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	Aldrin	AA	ug/L	0.02
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	Chlordane	AA	ug/L	0.10
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	Endrin	AA	ug/L	0.02
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	Toxaphene	AA	ug/L	1.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	Surr: Decachlorobiphenyl	0.801	%	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$PEST	Surr: Tetrachloro-m-xylene	0.803	%	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Bromochloromethane	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Chloromethane	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Bromomethane	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Chloroethane	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Acrolein	0	ug/L	50
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Acrylonitrile	0	ug/L	100.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Methylene Chloride	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Chloroform	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Benzene	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Trichloroethene	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	2-Chloroethylvinylether	0	ug/L	50
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Bromodichloromethane	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Dibromochloromethane	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Bromoform	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Tetrachloroethene	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Toluene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Toluene-d8	92	ug/L	81
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Chlorobenzene	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Ethylbenzene	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Bromofluorobenzene	98	ug/L	72
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	2-Propanone	0	ug/L	60
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	2-Butanone	0	ug/L	60
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$624	Dibromofluoromethane	101	ug/L	83
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	pyridine	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	2-Fluorophenol	26.9	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	aniline	0	ug/L	6.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Phenol-d6	19.8	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Phenol	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	2-Chlorophenol	0	ug/L	6.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	n-decane	0	ug/L	6.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	o-cresol	0	ug/L	6.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	acetophenone	0	ug/L	6.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Hexachloroethane	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Nitrobenzene-d5	71.0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	p-cresol	0	ug/L	6.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Nitrobenzene	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Isophorone	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Decafluorobiphenyl	53.5	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	2-Nitrophenol	0	ug/L	6.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	2,4-Dimethylphenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Naphthalene	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	1-Fluoronaphthalene	61.4	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	alpha terpineol	0	ug/L	6.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Acenaphthylene	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Acenaphthene	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	4-Nitrophenol	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Diethyl phthalate	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Fluorene	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	2,4,6-Tribromophenol	62.2	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Pentachlorophenol	0	ug/L	6.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	n-octadecane	0	ug/L	6.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Phenanthrene	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Anthracene	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	carbazole	0	ug/L	6.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Fluoranthene	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Benzidine	0	ug/L	6.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Pyrene	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Chrysene	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Perylene-D12	50.0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Hexachloroethane	0	ug/L	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	2,3-Dichloroaniline	0	ug/L	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Diethylphthalate	0	ug/L	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Benzo[ghi]perylene	0	ug/L	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	2,5-Cyclohexadien-1-one, 3,5-dihydroxy T	2	ug/L	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	2-Hexene, 2,5,5-trimethyl- T	7	ug/L	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	2-Hexene, 3,5,5-trimethyl- T	2	ug/L	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	3	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	2-Butenal, 3-methyl- T	3	ug/L	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Pentane, 2,3,4-trimethyl- T	1	ug/L	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Hexane, 3,3,4-trimethyl- T	8	ug/L	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	1-Octene, 3-ethyl- T	4	ug/L	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Carbonic acid, dipentyl ester T	2	ug/L	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Benzonitrile, 4-hydroxy- T	2	ug/L	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Cyclotetrasiloxane, octamethyl- T	2	ug/L	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	Triphenylphosphine oxide T	1	ug/L	
AC08066	LM50	Little Miami Watershed	50	10/4/2012	09:00	\$625	TOTAL AMOUNT	629	ug/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	MF_CF	Fecal Coliform, Membrane Filter	270	CFU/100mL	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	E-COLI	E.coli (Colilert)	365	MPN	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	TDS	Total Dissolved Solids	410	mg/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	SO4	Sulfate	46.8	mg/L	12.5
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	CL	Chloride	87.5	mg/L	1.00
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	TSS	Tot. Suspended Solids	4	mg/L	2
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	HARD	Hardness as CaCO3	272	mg/l	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	COD	COD	5	mg/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	594	uS/cm	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	TEMP_FLD	Temperature (Field) Celsius	14.27	Deg C	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	PH_FLD	pH (Field)	7.87	S.U.	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	DO_FLD	Dissolved Oxygen (field) mg/L	10.55	mg/l	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	748	uS/cm	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$ICP	Aluminum	0.00	mg/L	0.348
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$ICP	Antimony	0.00	mg/L	0.006
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$ICP	Arsenic	0.00	mg/L	0.012
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$ICP	Barium	0.0333	mg/L	0.003
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$ICP	Beryllium	0.00	mg/L	0.009
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$ICP	Cadmium	0.00	mg/L	0.012
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$ICP	Calcium	80.5	mg/L	0.066
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$ICP	Chromium	0.00	mg/L	0.006
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$ICP	Cobalt	0.00	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$ICP	Copper	0.00671	mg/L	0.006
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$ICP	Iron	0.0924	mg/L	0.018
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$ICP	Lead	0.00674	mg/L	0.006
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$ICP	Magnesium	14.3	mg/L	0.021
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$ICP	Manganese	0.0139	mg/L	0.009
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$ICP	Nickel	0.00	mg/L	0.003
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$ICP	Selenium	0.00	mg/L	0.009
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$ICP	Silver	0.00	mg/L	0.003
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$ICP	Strontium	0.324	mg/L	0.009
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$ICP	Thallium	0.00	mg/L	0.012
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$ICP	Tin	0.00	mg/L	0.006
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$ICP	Vanadium	0.00	mg/L	0.018
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$ICP	Zinc	0.00	mg/L	0.006
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	PB_FU	Lead by Furnace	0.09	ug/L	1.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	AS_FU	Arsenic by Furnace	1.37	ug/L	1.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	CU_FU	Copper by Furnace	3.4	ug/L	1
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	NH3	Ammonia as N	0	mg/L	0.5
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	TKN	Total Kjeldahl Nitrogen	0.3721	mg/L	0.5
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	TKP	Total Kjeldahl Phosphorus	0.3081	mg/L	0.5
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	NO2	Nitrite as N	0.0068	mg/l	0.005
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	Aldrin	AA	ug/L	0.02
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	Chlordane	AA	ug/L	0.10
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	4,4-DDE	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	Dieldrin	AA	ug/L	0.02
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	Endrin	AA	ug/L	0.02
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	Heptachlor	AA	ug/L	0.02
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	Toxaphene	AA	ug/L	1.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	PCB 1016	AA	ug/L	0.5
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	PCB 1221	AA	ug/L	0.5
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	PCB 1232	AA	ug/L	0.5
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	PCB 1242	AA	ug/L	0.5
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	PCB 1248	AA	ug/L	0.5
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	PCB 1254	AA	ug/L	0.5
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	PCB 1260	AA	ug/L	0.5
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	Surr: Decachlorobiphenyl	0.796	%	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$PEST	Surr: Tetrachloro-m-xylene	0.846	%	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Bromochloromethane	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Chloromethane	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Vinyl Chloride	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Bromomethane	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Chloroethane	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Acrolein	0	ug/L	50
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Acrylonitrile	0	ug/L	100.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Methylene Chloride	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Chloroform	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	1,2-Dichloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Benzene	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Trichloroethene	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	2-Chloroethylvinylether	0	ug/L	50
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Bromodichloromethane	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Dibromochloromethane	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Bromoform	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Tetrachloroethene	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Toluene	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Toluene-d8	91	ug/L	81
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Chlorobenzene	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Ethylbenzene	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Bromofluorobenzene	96	ug/L	72
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	2-Propanone	0	ug/L	60
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	2-Butanone	0	ug/L	60
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$624	Dibromofluoromethane	105	ug/L	83
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	pyridine	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	2-Fluorophenol	34.0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	aniline	0	ug/L	6.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Phenol-d6	21.5	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Phenol	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	2-Chlorophenol	0	ug/L	6.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	n-decane	0	ug/L	6.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	o-cresol	0	ug/L	6.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	acetophenone	0	ug/L	6.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Hexachloroethane	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Nitrobenzene-d5	63.0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	p-cresol	0	ug/L	6.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Nitrobenzene	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Isophorone	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Decafluorobiphenyl	58.7	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	2-Nitrophenol	0	ug/L	6.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Naphthalene	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	1-Fluoronaphthalene	59.1	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	alpha terpineol	0	ug/L	6.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Acenaphthylene	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	2,6-Dinitrotoluene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Acenaphthene	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	4-Nitrophenol	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Diethyl phthalate	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Fluorene	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	2,4,6-Tribromophenol	60.1	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Pentachlorophenol	0	ug/L	6.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	n-octadecane	0	ug/L	6.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Phenanthrene	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Anthracene	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	carbazole	0	ug/L	6.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Fluoranthene	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Benzidine	0	ug/L	6.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Pyrene	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Chrysene	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Perylene-D12	50.0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625	Benzo(k)fluoranthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		Hexachloroethane	0	ug/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		2,3-Dichloroaniline	0	ug/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		Diethylphthalate	0	ug/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		Benzo[ghi]perylene	0	ug/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		Cyclopentane, 1,1,3,3-tetramethyl- T	1	ug/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		2-Hexene, 2,5,5-trimethyl- T	6	ug/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		2-Hexene, 3,5,5-trimethyl- T	2	ug/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	9	ug/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	3	ug/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		Heptane, 3,3,5-trimethyl- T	2	ug/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		Pentane, 2,3,4-trimethyl- T	8	ug/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		1-Heptene, 4-methyl- T	4	ug/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		Pentane, 2,3,4-trimethyl- T2	2	ug/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		Triphenylphosphine oxide T	1	ug/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		3H-1,3,4-Benzotriazepin-2-one, 1,2-dih T	1	ug/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		tri(2-Ethylhexyl) trimellitate T	1	ug/L	
AC08067	LM49	Little Miami Watershed	49	10/4/2012	09:15	\$625		TOTAL AMOUNT	636	ug/L	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30		MF_CF	Fecal Coliform, Membrane Filter	600	CFU/100mL	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30		E-COLI	E.coli (Colilert)	687	MPN	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30		TDS	Total Dissolved Solids	430	mg/L	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30		SO4	Sulfate	37.2	mg/L	12.5
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30		CL	Chloride	95.7	mg/L	1.00
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30		TSS	Tot. Suspended Solids	2	mg/L	2



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	HARD	Hardness as CaCO3	282	mg/l	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	COD	COD	5	mg/L	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	641	uS/cm	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	TEMP_FLD	Temperature (Field) Celsius	14.46	Deg C	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	PH_FLD	pH (Field)	7.94	S.U.	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	DO_FLD	Dissolved Oxygen (field) mg/L	8.77	mg/l	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	803	uS/cm	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$ICP	Aluminum	0.00	mg/L	0.348
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$ICP	Antimony	0.00610	mg/L	0.006
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$ICP	Arsenic	0.00	mg/L	0.012
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$ICP	Barium	0.0359	mg/L	0.003
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$ICP	Beryllium	0.00	mg/L	0.009
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$ICP	Cadmium	0.00	mg/L	0.012
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$ICP	Calcium	78.4	mg/L	0.066
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$ICP	Chromium	0.00	mg/L	0.006
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$ICP	Cobalt	0.00	mg/L	0.006
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$ICP	Copper	0.00	mg/L	0.006
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$ICP	Iron	0.0535	mg/L	0.018
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$ICP	Lead	0.00602	mg/L	0.006
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$ICP	Magnesium	13.2	mg/L	0.021
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$ICP	Manganese	0.0166	mg/L	0.009
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$ICP	Nickel	0.00	mg/L	0.003
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$ICP	Selenium	0.00915	mg/L	0.009
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$ICP	Silver	0.00	mg/L	0.003
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$ICP	Strontium	0.292	mg/L	0.009
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$ICP	Thallium	0.00	mg/L	0.012
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$ICP	Tin	0.00	mg/L	0.006
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$ICP	Vanadium	0.00	mg/L	0.018
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$ICP	Zinc	0.00	mg/L	0.006
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	PB_FU	Lead by Furnace	0.06	ug/L	1.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	AS_FU	Arsenic by Furnace	1.71	ug/L	1.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	CD_FU	Cadmium by Furnace	AA	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	CU_FU	Copper by Furnace	3.1	ug/L	1
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	NH3	Ammonia as N	0	mg/L	0.5
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	TKN	Total Kjeldahl Nitrogen	0.3135	mg/L	0.5
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	TKP	Total Kjeldahl Phosphorus	0.3171	mg/L	0.5
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	NO2	Nitrite as N	0.0050	mg/l	0.005
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	Aldrin	AA	ug/L	0.02
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	Chlordane	AA	ug/L	0.10
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	Endrin	AA	ug/L	0.02
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	PCB 1260	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	Surr: Decachlorobiphenyl	0.833	%	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$PEST	Surr: Tetrachloro-m-xylene	0.892	%	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Bromochloromethane	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Chloromethane	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Bromomethane	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Chloroethane	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Acrolein	0	ug/L	50
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Acrylonitrile	0	ug/L	100.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Methylene Chloride	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Chloroform	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Benzene	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Trichloroethene	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	2-Chloroethylvinylether	0	ug/L	50
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Bromodichloromethane	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Dibromochloromethane	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Bromoform	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Tetrachloroethene	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Toluene	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Toluene-d8	100	ug/L	81
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Chlorobenzene	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Ethylbenzene	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Bromofluorobenzene	100	ug/L	72
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	2-Propanone	0	ug/L	60
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	2-Butanone	0	ug/L	60
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$624	Dibromofluoromethane	99	ug/L	83
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	pyridine	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	2-Fluorophenol	21.9	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	aniline	0	ug/L	6.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Phenol-d6	15.0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Phenol	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	2-Chlorophenol	0	ug/L	6.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	n-decane	0	ug/L	6.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	o-cresol	0	ug/L	6.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	acetophenone	0	ug/L	6.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Hexachloroethane	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Nitrobenzene-d5	55.0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	p-cresol	0	ug/L	6.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Nitrobenzene	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Isophorone	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Decafluorobiphenyl	49.1	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	2-Nitrophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Naphthalene	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	1-Fluoronaphthalene	51.1	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	alpha terpineol	0	ug/L	6.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Acenaphthylene	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Acenaphthene	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	4-Nitrophenol	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Diethyl phthalate	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Fluorene	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	2,4,6-Tribromophenol	58.6	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Pentachlorophenol	0	ug/L	6.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	n-octadecane	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Phenanthrene	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Anthracene	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	carbazole	0	ug/L	6.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Fluoranthene	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Benzidine	0	ug/L	6.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Pyrene	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Chrysene	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Perylene-D12	50.0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Hexachloroethane	0	ug/L	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	2,3-Dichloroaniline	0	ug/L	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Diethylphthalate	0	ug/L	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Benzo[ghi]perylene	0	ug/L	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	2-Hexene, 3,5,5-trimethyl- T	1	ug/L	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	2-Hexene, 2,5,5-trimethyl- T	4	ug/L	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	2-Hexene, 3,5,5-trimethyl- T2	1	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	3	ug/L	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	2-Butenal, 3-methyl- T	2	ug/L	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Pentane, 2,3,4-trimethyl- T	5	ug/L	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Hexane, 2,3-dimethyl- T	2	ug/L	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Pentane, 2,3,4-trimethyl- T2	1	ug/L	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Benzonitrile, 4-hydroxy- T	1	ug/L	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	Formylmethylenetriphenylphosphorane T	1	ug/L	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	2-(2-Furyl)-7-methyl-4-quinolinecarbox T	1	ug/L	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	tri(2-Ethylhexyl) trimellitate T	2	ug/L	
AC08068	LM48	Little Miami Watershed	48	10/4/2012	09:30	\$625	TOTAL AMOUNT	576	ug/L	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	1367	CFU/100mL	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	E-COLI	E.coli (Colilert)	1300	MPN	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	TDS	Total Dissolved Solids	520	mg/L	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	SO4	Sulfate	46.5	mg/L	12.5
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	CL	Chloride	147	mg/L	1.00
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	TSS	Tot. Suspended Solids	10	mg/L	2
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	HARD	Hardness as CaCO3	250	mg/l	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	COD	COD	11	mg/L	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	778	uS/cm	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	15.61	Deg C	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	PH_FLD	pH (Field)	7.77	S.U.	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	5.64	mg/l	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	948	uS/cm	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$ICP	Aluminum	0.00	mg/L	0.348
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$ICP	Antimony	0.00607	mg/L	0.006
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$ICP	Arsenic	0.00	mg/L	0.012
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$ICP	Barium	0.0435	mg/L	0.003
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$ICP	Beryllium	0.00	mg/L	0.009
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$ICP	Cadmium	0.00	mg/L	0.012
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$ICP	Calcium	74.6	mg/L	0.066
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$ICP	Chromium	0.0106	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$ICP	Cobalt	0.00	mg/L	0.006
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$ICP	Copper	0.00692	mg/L	0.006
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$ICP	Iron	0.248	mg/L	0.018
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$ICP	Lead	0.00749	mg/L	0.006
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$ICP	Magnesium	14.6	mg/L	0.021
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$ICP	Manganese	0.159	mg/L	0.009
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$ICP	Nickel	0.00387	mg/L	0.003
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$ICP	Selenium	0.0170	mg/L	0.009
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$ICP	Silver	0.00	mg/L	0.003
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$ICP	Strontium	0.285	mg/L	0.009
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$ICP	Thallium	0.00	mg/L	0.012
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$ICP	Tin	0.00	mg/L	0.006
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$ICP	Vanadium	0.00	mg/L	0.018
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$ICP	Zinc	0.0363	mg/L	0.006
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	PB_FU	Lead by Furnace	0.25	ug/L	1.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	AS_FU	Arsenic by Furnace	1.94	ug/L	1.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	CU_FU	Copper by Furnace	3.7	ug/L	1
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	NO3NO2	Nitrate + Nitrite	12.5	mg/L	0.5
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	TKP	Total Kjeldahl Phosphorus	0.4761	mg/L	0.5
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	NO2	Nitrite as N	0.0095	mg/l	0.005
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	NO3	Nitrate as N (calculated)	12.4905	mg/l	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	Aldrin	AA	ug/L	0.02
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	Chlordane	AA	ug/L	0.10
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	4,4-DDT	AA	ug/L	0.03



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	Endrin	AA	ug/L	0.02
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	Toxaphene	AA	ug/L	1.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	Surr: Decachlorobiphenyl	1.02	%	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$PEST	Surr: Tetrachloro-m-xylene	0.920	%	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624	Bromochloromethane	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624	Chloromethane	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624	Bromomethane	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624	Chloroethane	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624	Acrolein	0	ug/L	50
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624	Acrylonitrile	0	ug/L	100.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624	Methylene Chloride	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624	Chloroform	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		Benzene	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		Trichloroethene	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		2-Chloroethylvinylether	0	ug/L	50
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		Bromodichloromethane	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		Bromoform	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		Toluene	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		Toluene-d8	99	ug/L	81
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		Chlorobenzene	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		Ethylbenzene	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		Bromofluorobenzene	98	ug/L	72
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		2-Propanone	0	ug/L	60
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		2-Butanone	0	ug/L	60
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$624		Dibromofluoromethane	98	ug/L	83
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		pyridine	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		2-Fluorophenol	59.9	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		aniline	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Phenol-d6	40.6	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Phenol	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		2-Chlorophenol	0	ug/L	6.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		n-decane	0	ug/L	6.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		o-cresol	0	ug/L	6.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		acetophenone	0	ug/L	6.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Hexachloroethane	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Nitrobenzene-d5	112.0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		p-cresol	0	ug/L	6.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Nitrobenzene	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Isophorone	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Decafluorobiphenyl	95.8	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		2-Nitrophenol	0	ug/L	6.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Naphthalene	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		1-Fluoronaphthalene	110.9	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		alpha terpineol	0	ug/L	6.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Acenaphthylene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Acenaphthene	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		4-Nitrophenol	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Diethyl phthalate	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Fluorene	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		2,4,6-Tribromophenol	110.1	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Pentachlorophenol	0	ug/L	6.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		n-octadecane	0	ug/L	6.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Phenanthrene	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Anthracene	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		carbazole	0	ug/L	6.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Fluoranthene	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Benzidine	0	ug/L	6.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Pyrene	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Chrysene	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Perylene-D12	50.0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Benzo(b)fluoranthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Hexachloroethane	0	ug/L	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		2,3-Dichloroaniline	0	ug/L	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Diethylphthalate	0	ug/L	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Benzo[ghi]perylene	0	ug/L	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		2-Hexene, 2,5,5-trimethyl- T	36	ug/L	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		2-Hexene, 3,5,5-trimethyl- T	11	ug/L	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	11	ug/L	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		2-Butenal, 3-methyl- T	15	ug/L	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Pentane, 2,3,4-trimethyl- T	39	ug/L	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		Pentane, 2,3,4-trimethyl- T2	10	ug/L	
AC08069	LM47	Little Miami Watershed	47	10/4/2012	10:00	\$625		TOTAL AMOUNT	952	ug/L	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30		MF_CF	Fecal Coliform, Membrane Filter	150	CFU/100mL	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30		E-COLI	E.coli (Colilert)	194	MPN	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30		TDS	Total Dissolved Solids	300	mg/L	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30		SO4	Sulfate	34.0	mg/L	12.5
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30		CL	Chloride	55.5	mg/L	1.00
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30		TSS	Tot. Suspended Solids	22	mg/L	2
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30		SSC	Suspended Sediment Concentration	19.6	mg/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30		HARD	Hardness as CaCO3	198	mg/l	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30		COD	COD	5	mg/L	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	446	uS/cm	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30		TEMP_FLD	Temperature (Field) Celsius	17.88	Deg C	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	PH_FLD	pH (Field)	8.23	S.U.	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	DO_FLD	Dissolved Oxygen (field) mg/L	9.05	mg/l	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	516	uS/cm	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	NO3NO2	Nitrate + Nitrite	1.01	mg/L	0.5
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	TKN	Total Kjeldahl Nitrogen	0.4718	mg/L	0.5
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	TKP	Total Kjeldahl Phosphorus	0.3485	mg/L	0.5
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	NO2	Nitrite as N	0.0095	mg/l	0.005
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	NO3	Nitrate as N (calculated)	1.0005	mg/l	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST	Aldrin	AA	ug/L	0.02
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST	Chlordane	AA	ug/L	0.10
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST	Endrin	AA	ug/L	0.02
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST	PCB 1248	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST		PCB 1254	AA	ug/L	0.5
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST		PCB 1260	AA	ug/L	0.5
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST		Surr: Decachlorobiphenyl	0.867	%	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$PEST		Surr: Tetrachloro-m-xylene	0.898	%	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Bromochloromethane	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Chloromethane	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Vinyl Chloride	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Bromomethane	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Chloroethane	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Acrolein	0	ug/L	50
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Acrylonitrile	0	ug/L	100.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Methylene Chloride	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Chloroform	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Benzene	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Trichloroethene	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		2-Chloroethylvinylether	0	ug/L	50
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Bromoform	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		1,4-Dichlorobutane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Toluene	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Toluene-d8	101	ug/L	81
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Chlorobenzene	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Ethylbenzene	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Bromofluorobenzene	99	ug/L	72
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		2-Propanone	0	ug/L	60
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		2-Butanone	0	ug/L	60
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$624		Dibromofluoromethane	101	ug/L	83
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		pyridine	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		2-Fluorophenol	32.0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		aniline	0	ug/L	6.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Phenol-d6	19.5	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Phenol	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		n-decane	0	ug/L	6.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		o-cresol	0	ug/L	6.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		acetophenone	0	ug/L	6.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Hexachloroethane	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Nitrobenzene-d5	58.4	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		p-cresol	0	ug/L	6.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Nitrobenzene	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Isophorone	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	Decafluorobiphenyl	62.5	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	2-Nitrophenol	0	ug/L	6.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	Naphthalene	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	1-Fluoronaphthalene	61.4	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	alpha terpineol	0	ug/L	6.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	Acenaphthylene	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	Acenaphthene	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	4-Nitrophenol	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	Diethyl phthalate	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	Fluorene	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	2,4,6-Tribromophenol	60.4	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625	Hexachlorobenzene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Pentachlorophenol	0	ug/L	6.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		n-octadecane	0	ug/L	6.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Phenanthrene	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Anthracene	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		carbazole	0	ug/L	6.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Fluoranthene	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Benzidine	0	ug/L	6.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Pyrene	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Chrysene	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Hexachloroethane	0	ug/L	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Diethylphthalate	0	ug/L	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		1-Pentene, 3-ethyl- T	1	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		2-Hexene, 3,5,5-trimethyl- T	5	ug/L	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		2-Hexene, 3,5,5-trimethyl- T2	1	ug/L	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	2	ug/L	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		2-Butenal, 3-methyl- T	2	ug/L	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Decane, 3,3,4-trimethyl- T	6	ug/L	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		1-Hexene, 4,5-dimethyl- T	3	ug/L	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		Bis(2-ethylhexyl) phthalate T2	1	ug/L	
AC08070	LM11	Little Miami Watershed	11	10/4/2012	11:30	\$625		TOTAL AMOUNT	615	ug/L	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		MF_CF	Fecal Coliform, Membrane Filter	143	CFU/100mL	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		E-COLI	E.coli (Colilert)	130	MPN	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		TDS	Total Dissolved Solids	180	mg/L	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		SO4	Sulfate	19.0	mg/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		CL	Chloride	19.8	mg/L	1.00
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		TSS	Tot. Suspended Solids	34	mg/L	2
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		SSC	Suspended Sediment Concentration	10.5	mg/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		HARD	Hardness as CaCO3	142	mg/l	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		COD	COD	5	mg/L	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	269	uS/cm	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		TEMP_FLD	Temperature (Field) Celsius	18.34	Deg C	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		PH_FLD	pH (Field)	7.75	S.U.	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		DO_FLD	Dissolved Oxygen (field) mg/L	9.59	mg/l	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		CONDUCTIVITY	Specific Conductivity (uS/cm)	308	uS/cm	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		\$ICP	Aluminum	0.000	mg/L	0.348
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		\$ICP	Antimony	0.000	mg/L	0.006
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		\$ICP	Arsenic	0.000	mg/L	0.012
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		\$ICP	Barium	0.027	mg/L	0.003
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		\$ICP	Beryllium	0.000	mg/L	0.009
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		\$ICP	Cadmium	0.000	mg/L	0.012
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		\$ICP	Calcium	38.893	mg/L	0.066
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		\$ICP	Chromium	0.000	mg/L	0.006
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		\$ICP	Cobalt	0.000	mg/L	0.006
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10		\$ICP	Copper	0.000	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$ICP	Iron	0.421	mg/L	0.018
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$ICP	Lead	0.000	mg/L	0.006
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$ICP	Magnesium	9.296	mg/L	0.021
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$ICP	Manganese	0.053	mg/L	0.009
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$ICP	Nickel	0.000	mg/L	0.003
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$ICP	Selenium	0.015	mg/L	0.009
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$ICP	Silver	0.000	mg/L	0.003
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$ICP	Strontium	0.120	mg/L	0.009
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$ICP	Thallium	0.019	mg/L	0.012
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$ICP	Tin	0.000	mg/L	0.006
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$ICP	Vanadium	0.000	mg/L	0.018
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$ICP	Zinc	0.000	mg/L	0.006
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	PB_FU	Lead by Furnace	0.34	ug/L	1.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	AS_FU	Arsenic by Furnace	1.68	ug/L	1.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	CU_FU	Copper by Furnace	1.6	ug/L	1
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	NH3	Ammonia as N	0	mg/L	0.5
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	NO3NO2	Nitrate + Nitrite	0.690	mg/L	0.5
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	TKN	Total Kjeldahl Nitrogen	0.6216	mg/L	0.5
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	TKP	Total Kjeldahl Phosphorus	0.3533	mg/L	0.5
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	NO2	Nitrite as N	0.0100	mg/l	0.005
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	NO3	Nitrate as N (calculated)	0.6800	mg/l	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	Aldrin	AA	ug/L	0.02
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	Chlordane	AA	ug/L	0.1
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	4,4-DDT	AA	ug/L	0.02
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	4,4-DDE	AA	ug/L	0.03
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	Dieldrin	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	Endrin	AA	ug/L	0.02
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	Heptachlor	AA	ug/L	0.02
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	Toxaphene	AA	ug/L	1
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	PCB 1016	AA	ug/L	0.5
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	PCB 1221	AA	ug/L	0.5
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	PCB 1232	AA	ug/L	0.5
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	PCB 1242	AA	ug/L	0.5
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	PCB 1248	AA	ug/L	0.5
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	PCB 1254	AA	ug/L	0.5
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	PCB 1260	AA	ug/L	0.5
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	Surr: Decachlorobiphenyl	0	%	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$PEST	Surr: Tetrachloro-m-xylene	0	%	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Bromochloromethane	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Chloromethane	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Vinyl Chloride	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Bromomethane	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Chloroethane	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Acrolein	0	ug/L	50
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Acrylonitrile	0	ug/L	100.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Methylene Chloride	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Chloroform	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Benzene	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Trichloroethene	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	2-Chloroethylvinylether	0	ug/L	50
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Bromodichloromethane	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Dibromochloromethane	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Bromoform	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Tetrachloroethene	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Toluene	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Toluene-d8	98	ug/L	81
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Chlorobenzene	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Ethylbenzene	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Bromofluorobenzene	99	ug/L	72
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	2-Propanone	0	ug/L	60
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	2-Butanone	0	ug/L	60
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$624	Dibromofluoromethane	100	ug/L	83
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	pyridine	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	2-Fluorophenol	29.0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	aniline	0	ug/L	6.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Phenol-d6	18.0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Phenol	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	2-Chlorophenol	0	ug/L	6.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	n-decane	0	ug/L	6.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	o-cresol	0	ug/L	6.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	acetophenone	0	ug/L	6.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Hexachloroethane	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Nitrobenzene-d5	60.2	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	p-cresol	0	ug/L	6.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Nitrobenzene	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Isophorone	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Decafluorobiphenyl	60.4	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	2-Nitrophenol	0	ug/L	6.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Naphthalene	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	1-Fluoronaphthalene	63.2	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	alpha terpineol	0	ug/L	6.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Acenaphthylene	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Acenaphthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	4-Nitrophenol	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Diethyl phthalate	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Fluorene	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	2,4,6-Tribromophenol	52.2	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Pentachlorophenol	0	ug/L	6.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	n-octadecane	0	ug/L	6.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Phenanthrene	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Anthracene	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	carbazole	0	ug/L	6.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Fluoranthene	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Benzidine	0	ug/L	6.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Pyrene	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Chrysene	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Perylene-D12	50.0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Benzo(a)pyrene	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Hexachloroethane	0	ug/L	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	2,3-Dichloroaniline	0	ug/L	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Diethylphthalate	0	ug/L	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Benzo[ghi]perylene	0	ug/L	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Hexane, 1-(hexyloxy)-4-methyl- T	1	ug/L	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	2-Hexene, 3,5,5-trimethyl- T	6	ug/L	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	2-Hexene, 2,5,5-trimethyl- T	2	ug/L	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	3	ug/L	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	2-Butenal, 3-methyl- T	2	ug/L	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Pentane, 2,3,4-trimethyl- T	1	ug/L	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Pentane, 2,3,4-trimethyl- T2	7	ug/L	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	1-Heptene, 4-methyl- T	3	ug/L	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	Pentane, 2,3,4-trimethyl- T3	1	ug/L	
AC08136	LM32	Little Miami Watershed	32	10/5/2012	08:10	\$625	TOTAL AMOUNT	611	ug/L	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	MF_CF	Fecal Coliform, Membrane Filter	150	CFU/100mL	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	E-COLI	E.coli (Colilert)	155	MPN	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	TDS	Total Dissolved Solids	130	mg/L	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	SO4	Sulfate	19.7	mg/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	CL	Chloride	21.9	mg/L	1.00
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	TSS	Tot. Suspended Solids	16	mg/L	2
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	SSC	Suspended Sediment Concentration	10.0	mg/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	HARD	Hardness as CaCO3	144	mg/l	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	COD	COD	5	mg/L	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	279	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	TEMP_FLD	Temperature (Field) Celsius	18.30	Deg C	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	PH_FLD	pH (Field)	7.62	S.U.	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	DO_FLD	Dissolved Oxygen (field) mg/L	9.41	mg/l	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	320	uS/cm	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$ICP	Aluminum	0.000	mg/L	0.348
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$ICP	Antimony	0.000	mg/L	0.006
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$ICP	Arsenic	0.000	mg/L	0.012
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$ICP	Barium	0.027	mg/L	0.003
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$ICP	Beryllium	0.000	mg/L	0.009
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$ICP	Cadmium	0.000	mg/L	0.012
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$ICP	Calcium	39.582	mg/L	0.066
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$ICP	Chromium	0.000	mg/L	0.006
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$ICP	Cobalt	0.000	mg/L	0.006
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$ICP	Copper	0.000	mg/L	0.006
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$ICP	Iron	0.606	mg/L	0.018
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$ICP	Lead	0.000	mg/L	0.006
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$ICP	Magnesium	9.473	mg/L	0.021
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$ICP	Manganese	0.069	mg/L	0.009
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$ICP	Nickel	0.000	mg/L	0.003
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$ICP	Selenium	0.015	mg/L	0.009
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$ICP	Silver	0.000	mg/L	0.003
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$ICP	Strontium	0.124	mg/L	0.009
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$ICP	Thallium	0.028	mg/L	0.012
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$ICP	Tin	0.000	mg/L	0.006
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$ICP	Vanadium	0.000	mg/L	0.018
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$ICP	Zinc	0.000	mg/L	0.006
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	PB_FU	Lead by Furnace	0.62	ug/L	1.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	AS_FU	Arsenic by Furnace	1.54	ug/L	1.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	CU_FU	Copper by Furnace	1.8	ug/L	1
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	NH3	Ammonia as N	0	mg/L	0.5
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	NO3NO2	Nitrate + Nitrite	0.878	mg/L	0.5
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	TKN	Total Kjeldahl Nitrogen	0.4389	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	TKP	Total Kjeldahl Phosphorus	0.3672	mg/L	0.5
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	NO2	Nitrite as N	0.0102	mg/l	0.005
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	NO3	Nitrate as N (calculated)	0.8678	mg/l	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	CHLOROPHYLL	Chlorophyll	3.74	mg/m3	1.00
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	Aldrin	AA	ug/L	0.02
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	Chlordane	AA	ug/L	0.1
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	4,4-DDT	AA	ug/L	0.02
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	4,4-DDE	AA	ug/L	0.03
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	Endrin	AA	ug/L	0.02
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	Toxaphene	AA	ug/L	1
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	Surr: Decachlorobiphenyl	0	%	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$PEST	Surr: Tetrachloro-m-xylene	0	%	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Bromochloromethane	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Chloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Bromomethane	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Chloroethane	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Acrolein	0	ug/L	100.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Acrylonitrile	0	ug/L	100.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Methylene Chloride	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Chloroform	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Benzene	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Trichloroethene	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Bromodichloromethane	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Dibromochloromethane	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Bromoform	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Tetrachloroethene	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Toluene	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Toluene-d8	100	ug/L	81
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Chlorobenzene	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Ethylbenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Bromofluorobenzene	101	ug/L	72
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	2-Propanone	0	ug/L	60
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	2-Butanone	0	ug/L	60
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$624	Dibromofluoromethane	103	ug/L	83
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	pyridine	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	2-Fluorophenol	23.4	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	aniline	0	ug/L	6.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Phenol-d6	13.9	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Phenol	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	2-Chlorophenol	0	ug/L	6.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	n-decane	0	ug/L	6.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	o-cresol	0	ug/L	6.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	acetophenone	0	ug/L	6.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Hexachloroethane	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Nitrobenzene-d5	51.9	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	p-cresol	0	ug/L	6.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Nitrobenzene	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Isophorone	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Decafluorobiphenyl	44.5	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	2-Nitrophenol	0	ug/L	6.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Naphthalene	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	1-Fluoronaphthalene	46.5	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	alpha terpineol	0	ug/L	6.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Acenaphthylene	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Acenaphthene	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	4-Nitrophenol	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Diethyl phthalate	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Fluorene	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	2,4,6-Tribromophenol	54.6	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Pentachlorophenol	0	ug/L	6.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	n-octadecane	0	ug/L	6.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Phenanthrene	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Anthracene	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	carbazole	0	ug/L	6.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625	Di-n-butyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Fluoranthene	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Benzidine	0	ug/L	6.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Pyrene	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Chrysene	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Hexachloroethane	0	ug/L	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Diethylphthalate	0	ug/L	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		1-Isopropyl-2,2-dimethylpropylideneami T	1	ug/L	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		2-Hexene, 3,5,5-trimethyl- T	5	ug/L	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		2-Hexene, 3,5,5-trimethyl- T2	1	ug/L	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	2	ug/L	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	2	ug/L	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Pentane, 2,3,4-trimethyl- T	1	ug/L	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Decane, 3,3,4-trimethyl- T	5	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		1-Hexene, 4,5-dimethyl- T	3	ug/L	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Pentane, 2,3,4-trimethyl- T2	1	ug/L	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Nonanoic acid T	1	ug/L	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		Diethyltoluamide T	4	ug/L	
AC08137	LM36	Little Miami Watershed	36	10/5/2012	08:30	\$625		TOTAL AMOUNT	560	ug/L	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		MF_CF	Fecal Coliform, Membrane Filter	171	CFU/100mL	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		E-COLI	E.coli (Colilert)	236	MPN	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		TDS	Total Dissolved Solids	200	mg/L	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		SO4	Sulfate	25.4	mg/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		CL	Chloride	43.8	mg/L	1.00
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		TSS	Tot. Suspended Solids	10	mg/L	2
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		SSC	Suspended Sediment Concentration	48.3	mg/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		HARD	Hardness as CaCO3	160	mg/l	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		COD	COD	18	mg/L	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	354	uS/cm	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		TEMP_FLD	Temperature (Field) Celsius	18.40	Deg C	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		PH_FLD	pH (Field)	7.14	S.U.	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		DO_FLD	Dissolved Oxygen (field) mg/L	8.58	mg/l	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		CONDUCTIVITY	Specific Conductivity (uS/cm)	406	uS/cm	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		\$ICP	Aluminum	0.794	mg/L	0.348
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		\$ICP	Antimony	0.000	mg/L	0.006
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		\$ICP	Arsenic	0.000	mg/L	0.012
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		\$ICP	Barium	0.030	mg/L	0.003
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		\$ICP	Beryllium	0.000	mg/L	0.009
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		\$ICP	Cadmium	0.000	mg/L	0.012
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		\$ICP	Calcium	43.619	mg/L	0.066
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		\$ICP	Chromium	0.000	mg/L	0.006
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		\$ICP	Cobalt	0.000	mg/L	0.006
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		\$ICP	Copper	0.000	mg/L	0.006
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		\$ICP	Iron	1.304	mg/L	0.018
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		\$ICP	Lead	0.000	mg/L	0.006
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00		\$ICP	Magnesium	11.423	mg/L	0.021



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$ICP	Manganese	0.121	mg/L	0.009
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$ICP	Nickel	0.000	mg/L	0.003
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$ICP	Selenium	0.020	mg/L	0.009
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$ICP	Silver	0.000	mg/L	0.003
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$ICP	Strontium	0.142	mg/L	0.009
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$ICP	Thallium	0.019	mg/L	0.012
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$ICP	Tin	0.000	mg/L	0.006
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$ICP	Vanadium	0.000	mg/L	0.018
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$ICP	Zinc	0.016	mg/L	0.006
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	PB_FU	Lead by Furnace	1.04	ug/L	1.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	AS_FU	Arsenic by Furnace	1.51	ug/L	1.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	CU_FU	Copper by Furnace	2.4	ug/L	1
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	NH3	Ammonia as N	0	mg/L	0.5
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	NO3NO2	Nitrate + Nitrite	1.02	mg/L	0.5
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	TKN	Total Kjeldahl Nitrogen	0.4508	mg/L	0.5
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	TKP	Total Kjeldahl Phosphorus	0.4697	mg/L	0.5
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	NO2	Nitrite as N	0.0281	mg/l	0.005
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	NO3	Nitrate as N (calculated)	0.9919	mg/l	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	Aldrin	AA	ug/L	0.02
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	Chlordane	AA	ug/L	0.1
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	4,4-DDT	AA	ug/L	0.02
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	4,4-DDE	AA	ug/L	0.03
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	Endrin	AA	ug/L	0.02
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	Toxaphene	AA	ug/L	1.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	Surr: Decachlorobiphenyl	0	%	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$PEST	Surr: Tetrachloro-m-xylene	0	%	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Bromochloromethane	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Chloromethane	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Bromomethane	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Chloroethane	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Acrolein	0	ug/L	100.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Acrylonitrile	0	ug/L	100.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Methylene Chloride	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Chloroform	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Benzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Trichloroethene	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	2-Chloroethylvinylether	0	ug/L	50
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Bromodichloromethane	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Dibromochloromethane	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Bromoform	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Tetrachloroethene	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Toluene	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Toluene-d8	98	ug/L	81
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Chlorobenzene	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Ethylbenzene	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Bromofluorobenzene	98	ug/L	72
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	2-Propanone	0	ug/L	60
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	2-Butanone	0	ug/L	60
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$624	Dibromofluoromethane	99	ug/L	83
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	pyridine	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	2-Fluorophenol	27.0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	aniline	0	ug/L	6.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Phenol-d6	15.8	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Phenol	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	2-Chlorophenol	0	ug/L	6.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	n-decane	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	o-cresol	0	ug/L	6.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	acetophenone	0	ug/L	6.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Hexachloroethane	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Nitrobenzene-d5	52.0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	p-cresol	0	ug/L	6.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Nitrobenzene	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Isophorone	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Decafluorobiphenyl	39.7	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	2-Nitrophenol	0	ug/L	6.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Naphthalene	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	1-Fluoronaphthalene	46.0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	alpha terpineol	0	ug/L	6.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Acenaphthylene	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Acenaphthene	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	4-Nitrophenol	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	2,4-Dinitrotoluene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Diethyl phthalate	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Fluorene	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	2,4,6-Tribromophenol	56.0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Pentachlorophenol	0	ug/L	6.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	n-octadecane	0	ug/L	6.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Phenanthrene	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Anthracene	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	carbazole	0	ug/L	6.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Fluoranthene	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Benzidine	0	ug/L	6.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Pyrene	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Chrysene	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Perylene-D12	50.0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Benzo(ghi)perylene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Hexachloroethane	0	ug/L	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	2,3-Dichloroaniline	0	ug/L	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Diethylphthalate	0	ug/L	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Benzo[ghi]perylene	0	ug/L	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	2-Hexene, 2,5,5-trimethyl- T	5	ug/L	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	2-Hexene, 3,5,5-trimethyl- T	1	ug/L	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Cyclopentanone, 2-ethyl- T	2	ug/L	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Decane, 3,3,4-trimethyl- T	5	ug/L	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	Octane, 3-methyl-6-methylene- T	2	ug/L	
AC08138	LM35	Little Miami Watershed	35	10/5/2012	09:00	\$625	TOTAL AMOUNT	551	ug/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	MF_CF	Fecal Coliform, Membrane Filter	193	CFU/100mL	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	E-COLI	E.coli (Colilert)	186	MPN	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	TDS	Total Dissolved Solids	170	mg/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	SO4	Sulfate	20.3	mg/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	CL	Chloride	21.7	mg/L	1.00
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	TSS	Tot. Suspended Solids	22	mg/L	2
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	SSC	Suspended Sediment Concentration	14.7	mg/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	HARD	Hardness as CaCO3	140	mg/l	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	COD	COD	9	mg/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	281	uS/cm	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	TEMP_FLD	Temperature (Field) Celsius	18.15	Deg C	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	PH_FLD	pH (Field)	7.56	S.U.	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	DO_FLD	Dissolved Oxygen (field) mg/L	9.55	mg/l	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	324	uS/cm	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$ICP	Aluminum	0.000	mg/L	0.348
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$ICP	Antimony	0.000	mg/L	0.006
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$ICP	Arsenic	0.000	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$ICP	Barium	0.027	mg/L	0.003
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$ICP	Beryllium	0.000	mg/L	0.009
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$ICP	Cadmium	0.000	mg/L	0.012
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$ICP	Calcium	40.330	mg/L	0.066
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$ICP	Chromium	0.000	mg/L	0.006
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$ICP	Cobalt	0.000	mg/L	0.006
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$ICP	Copper	0.000	mg/L	0.006
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$ICP	Iron	0.499	mg/L	0.018
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$ICP	Lead	0.000	mg/L	0.006
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$ICP	Magnesium	9.432	mg/L	0.021
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$ICP	Manganese	0.064	mg/L	0.009
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$ICP	Nickel	0.000	mg/L	0.003
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$ICP	Selenium	0.019	mg/L	0.009
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$ICP	Silver	0.000	mg/L	0.003
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$ICP	Strontium	0.127	mg/L	0.009
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$ICP	Thallium	0.014	mg/L	0.012
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$ICP	Tin	0.000	mg/L	0.006
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$ICP	Vanadium	0.000	mg/L	0.018
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$ICP	Zinc	0.000	mg/L	0.006
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	PB_FU	Lead by Furnace	0.42	ug/L	1.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	AS_FU	Arsenic by Furnace	1.60	ug/L	1.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	CU_FU	Copper by Furnace	1.9	ug/L	1
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	NH3	Ammonia as N	0	mg/L	0.5
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	NO3NO2	Nitrate + Nitrite	0.885	mg/L	0.5
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	TKN	Total Kjeldahl Nitrogen	0.5000	mg/L	0.5
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	TKP	Total Kjeldahl Phosphorus	0.3665	mg/L	0.5
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	NO2	Nitrite as N	0.0101	mg/l	0.005
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	NO3	Nitrate as N (calculated)	0.8749	mg/l	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	Aldrin	AA	ug/L	0.02
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	Beta-BHC	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	Chlordane	AA	ug/L	0.1
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	4,4-DDT	AA	ug/L	0.02
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	4,4-DDE	AA	ug/L	0.03
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	Endrin	AA	ug/L	0.02
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	Toxaphene	AA	ug/L	1
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	Surr: Decachlorobiphenyl	0	%	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$PEST	Surr: Tetrachloro-m-xylene	0	%	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624	Bromochloromethane	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624	Chloromethane	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624	Bromomethane	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624	Chloroethane	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624	Acrolein	0	ug/L	50
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624	Acrylonitrile	0	ug/L	100.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		Methylene Chloride	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		Chloroform	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		Benzene	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		Trichloroethene	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		2-Chloroethylvinylether	0	ug/L	50
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		Bromoform	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		Toluene	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		Toluene-d8	98	ug/L	81
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		Chlorobenzene	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		Ethylbenzene	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		Bromofluorobenzene	99	ug/L	72
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		2-Propanone	0	ug/L	60
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		2-Butanone	0	ug/L	60
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$624		Dibromofluoromethane	102	ug/L	83

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		pyridine	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		2-Fluorophenol	35.2	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		aniline	0	ug/L	6.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		Phenol-d6	19.6	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		Phenol	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		n-decane	0	ug/L	6.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		o-cresol	0	ug/L	6.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		acetophenone	0	ug/L	6.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		Hexachloroethane	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		Nitrobenzene-d5	63.8	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		p-cresol	0	ug/L	6.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		Nitrobenzene	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		Isophorone	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		Decafluorobiphenyl	47.7	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		Naphthalene	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		1-Fluoronaphthalene	61.5	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		alpha terpineol	0	ug/L	6.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Acenaphthylene	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Acenaphthene	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	4-Nitrophenol	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Diethyl phthalate	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Fluorene	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	2,4,6-Tribromophenol	69.4	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Pentachlorophenol	0	ug/L	6.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	n-octadecane	0	ug/L	6.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Phenanthrene	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Anthracene	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	carbazole	0	ug/L	6.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Fluoranthene	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Benzidine	0	ug/L	6.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Pyrene	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Benzo(a)anthracene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Chrysene	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Perylene-D12	50.0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Hexachloroethane	0	ug/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	2,3-Dichloroaniline	0	ug/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Diethylphthalate	0	ug/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Benzo[ghi]perylene	0	ug/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	1-Pentene, 3-ethyl- T	1	ug/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Hexane, 1-(hexyloxy)-4-methyl- T	1	ug/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	2-Hexene, 2,5,5-trimethyl- T	5	ug/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	2-Hexene, 3,5,5-trimethyl- T	1	ug/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	20	ug/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	2	ug/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	2,4,4-Trimethyl-1-hexene T	1	ug/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Pentane, 2,3,4-trimethyl- T	6	ug/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	1-Octene, 3-ethyl- T	3	ug/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Decane, 3,3,4-trimethyl- T	1	ug/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	Diethyltoluamide T	8	ug/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	1,3,5-Triazine-2,4-diamine, 6-chloro-N T	1	ug/L	
AC08139	LM34	Little Miami Watershed	34	10/5/2012	09:30	\$625	TOTAL AMOUNT	648	ug/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	MF_CF	Fecal Coliform, Membrane Filter	93	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	E-COLI	E.coli (Colilert)	88	MPN	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	TDS	Total Dissolved Solids	420	mg/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	SO4	Sulfate	55.5	mg/L	25.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	CL	Chloride	111	mg/L	2.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	TSS	Tot. Suspended Solids	16	mg/L	2
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	SSC	Suspended Sediment Concentration	10.2	mg/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	HARD	Hardness as CaCO3	310	mg/l	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	COD	COD	5	mg/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	632	uS/cm	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	TEMP_FLD	Temperature (Field) Celsius	13.13	Deg C	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	PH_FLD	pH (Field)	8.44	S.U.	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	DO_FLD	Dissolved Oxygen (field) mg/L	110.0	mg/l	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	817	uS/cm	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	NH3	Ammonia as N	0	mg/L	0.5
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	NO3NO2	Nitrate + Nitrite	2.5843	mg/L	0.5
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	TKN	Total Kjeldahl Nitrogen	0.8865	mg/L	0.5
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	TKP	Total Kjeldahl Phosphorus	0.2633	mg/L	0.5
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	NO2	Nitrite as N	0.0036	mg/l	0.005
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	NO3	Nitrate as N (calculated)	2.5807	mg/l	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	CHLOROPHYLL	Chlorophyll	4.15	mg/m3	1.00
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	Aldrin	AA	ug/L	0.02
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	Chlordane	AA	ug/L	0.1
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	4,4-DDT	AA	ug/L	0.02
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	4,4-DDE	AA	ug/L	0.03
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	Dieldrin	AA	ug/L	0.02
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	Endosulfan II	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	Endrin	AA	ug/L	0.02
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	Heptachlor	AA	ug/L	0.02
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	Toxaphene	AA	ug/L	1.00
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	PCB 1016	AA	ug/L	0.5
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	PCB 1221	AA	ug/L	0.5
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	PCB 1232	AA	ug/L	0.5
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	PCB 1242	AA	ug/L	0.5
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	PCB 1248	AA	ug/L	0.5
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	PCB 1254	AA	ug/L	0.5
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	PCB 1260	AA	ug/L	0.5
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	Surr: Decachlorobiphenyl	1.16	%	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$PEST	Surr: Tetrachloro-m-xylene	0.945	%	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Bromochloromethane	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Chloromethane	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Vinyl Chloride	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Bromomethane	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Chloroethane	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Acrolein	0	ug/L	50
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Acrylonitrile	0	ug/L	100.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Methylene Chloride	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Chloroform	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Carbon Tetrachloride	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Benzene	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Trichloroethene	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	2-Chloroethylvinylether	0	ug/L	50
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Bromodichloromethane	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Dibromochloromethane	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Bromoform	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Tetrachloroethene	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Toluene	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Toluene-d8	89	ug/L	81
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Chlorobenzene	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Ethylbenzene	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Bromofluorobenzene	95	ug/L	72
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	2-Propanone	0	ug/L	60
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	2-Butanone	0	ug/L	60
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$624	Dibromofluoromethane	102	ug/L	83
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	pyridine	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	2-Fluorophenol	31.2	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	aniline	0	ug/L	6.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Phenol-d6	19.5	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Phenol	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	2-Chlorophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	n-decane	0	ug/L	6.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	o-cresol	0	ug/L	6.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	acetophenone	0	ug/L	6.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Hexachloroethane	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Nitrobenzene-d5	67.3	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	p-cresol	0	ug/L	6.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Nitrobenzene	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Isophorone	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Decafluorobiphenyl	58.7	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	2-Nitrophenol	0	ug/L	6.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Naphthalene	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	1-Fluoronaphthalene	66.3	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	alpha terpineol	0	ug/L	6.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Acenaphthylene	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Acenaphthene	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	4-Nitrophenol	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Diethyl phthalate	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Fluorene	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	2,4,6-Tribromophenol	51.9	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Pentachlorophenol	0	ug/L	6.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	n-octadecane	0	ug/L	6.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Phenanthrene	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Anthracene	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	carbazole	0	ug/L	6.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Fluoranthene	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Benzidine	0	ug/L	6.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Pyrene	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Chrysene	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Perylene-D12	50.0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Hexachloroethane	0	ug/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	2,3-Dichloroaniline	0	ug/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Diethylphthalate	0	ug/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Benzo[ghi]perylene	0	ug/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	1-Pentene, 3-ethyl- T	1	ug/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	2-Hexene, 2,5,5-trimethyl- T	5	ug/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	2-Hexene, 3,5,5-trimethyl- T	1	ug/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	22	ug/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	2	ug/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	2,4,4-Trimethyl-1-hexene T	1	ug/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Pentane, 2,3,4-trimethyl- T	6	ug/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Heptane, 3-ethyl-5-methylene- T	3	ug/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Pentane, 2,3,4-trimethyl- T2	1	ug/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Morpholine, 4-[3-(4-butoxyphenoxy)prop T	3	ug/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Cetrimonium Bromide T	5	ug/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	Morpholine, 4-octadecyl- T	2	ug/L	
AC08220	LM01	Little Miami Watershed	1	10/8/2012	09:40	\$625	TOTAL AMOUNT	649	ug/L	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	MF_CF	Fecal Coliform, Membrane Filter	129	CFU/100mL	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	E-COLI	E.coli (Colilert)	79	MPN	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	TDS	Total Dissolved Solids	370	mg/L	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	SO4	Sulfate	38.9	mg/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	CL	Chloride	80.1	mg/L	1.00
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	TSS	Tot. Suspended Solids	14	mg/L	2
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	SSC	Suspended Sediment Concentration	9.4	mg/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	HARD	Hardness as CaCO3	264	mg/l	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	COD	COD	4	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	520	uS/cm	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	TEMP_FLD	Temperature (Field) Celsius	12.70	Deg C	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	PH_FLD	pH (Field)	8.53	S.U.	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	DO_FLD	Dissolved Oxygen (field) mg/L	114.3	mg/l	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	CONDUCTIVITY	Specific Conductivity (uS/cm)	691	uS/cm	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	NH3	Ammonia as N	0	mg/L	0.5
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	NO3NO2	Nitrate + Nitrite	1.74	mg/L	0.5
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	TKN	Total Kjeldahl Nitrogen	1.2108	mg/L	0.5
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	TKP	Total Kjeldahl Phosphorus	0.1517	mg/L	0.5
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	NO2	Nitrite as N	0.0102	mg/l	0.005
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	NO3	Nitrate as N (calculated)	1.7298	mg/l	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	Aldrin	AA	ug/L	0.02
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	Chlordane	AA	ug/L	0.1
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	Dieldrin	AA	ug/L	0.02
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	Endrin	AA	ug/L	0.02
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	Heptachlor	AA	ug/L	0.02
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	Toxaphene	AA	ug/L	1.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	PCB 1016	AA	ug/L	0.5
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	PCB 1221	AA	ug/L	0.5
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	PCB 1232	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	PCB 1242	AA	ug/L	0.5
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	PCB 1248	AA	ug/L	0.5
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	PCB 1254	AA	ug/L	0.5
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	PCB 1260	AA	ug/L	0.5
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	Surr: Decachlorobiphenyl	1.03	%	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$PEST	Surr: Tetrachloro-m-xylene	0.895	%	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Bromochloromethane	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Chloromethane	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Vinyl Chloride	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Bromomethane	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Chloroethane	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Acrolein	0	ug/L	50
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Acrylonitrile	0	ug/L	100.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Methylene Chloride	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Chloroform	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Benzene	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Trichloroethene	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	2-Chloroethylvinylether	0	ug/L	50
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Bromodichloromethane	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Dibromochloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Bromoform	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Tetrachloroethene	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Toluene	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Toluene-d8	90	ug/L	81
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Chlorobenzene	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Ethylbenzene	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Bromofluorobenzene	96	ug/L	72
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	2-Propanone	0	ug/L	60
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	2-Butanone	0	ug/L	60
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$624	Dibromofluoromethane	105	ug/L	83
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	pyridine	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	2-Fluorophenol	25.8	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	aniline	0	ug/L	6.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Phenol-d6	21.0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Phenol	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	2-Chlorophenol	0	ug/L	6.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	n-decane	0	ug/L	6.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	o-cresol	0	ug/L	6.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	acetophenone	0	ug/L	6.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Hexachloroethane	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Nitrobenzene-d5	74.2	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	p-cresol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Nitrobenzene	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Isophorone	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Decafluorobiphenyl	68.3	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	2-Nitrophenol	0	ug/L	6.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Naphthalene	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	1-Fluoronaphthalene	68.2	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	alpha terpineol	0	ug/L	6.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Acenaphthylene	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Acenaphthene	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	4-Nitrophenol	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Diethyl phthalate	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Fluorene	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	2,4,6-Tribromophenol	51.8	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Pentachlorophenol	0	ug/L	6.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	n-octadecane	0	ug/L	6.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Phenanthrene	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Anthracene	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	carbazole	0	ug/L	6.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Fluoranthene	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Benzidine	0	ug/L	6.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Pyrene	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Chrysene	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Perylene-D12	50.0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Hexachloroethane	0	ug/L	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	2,3-Dichloroaniline	0	ug/L	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Diethylphthalate	0	ug/L	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Dibenz[a,h]anthracene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Benzo[ghi]perylene	0	ug/L	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	1-Pentene, 3-ethyl- T	1	ug/L	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	2-Hexene, 2,5,5-trimethyl- T	5	ug/L	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	2-Hexene, 3,5,5-trimethyl- T	1	ug/L	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	20	ug/L	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	2-Butenal, 3-methyl- T	2	ug/L	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Di-iso-amyl oxalate T	1	ug/L	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Pentane, 2,3,4-trimethyl- T	7	ug/L	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Heptane, 3-ethyl-5-methylene- T	3	ug/L	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Pentane, 2,3,4-trimethyl- T2	1	ug/L	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Tetradecanoic acid T	1	ug/L	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	n-Hexadecanoic acid T	9	ug/L	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	Octadecanoic acid T	2	ug/L	
AC08221	LM02	Little Miami Watershed	2 (3261-09)	10/8/2012	10:05	\$625	TOTAL AMOUNT	664	ug/L	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	MF_CF	Fecal Coliform, Membrane Filter	57	CFU/100mL	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	E-COLI	E.coli (Colilert)	105	MPN	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	TDS	Total Dissolved Solids	400	mg/L	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	SO4	Sulfate	42.0	mg/L	1.00
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	CL	Chloride	77.3	mg/L	1.00
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	TSS	Tot. Suspended Solids	18	mg/L	2
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	SSC	Suspended Sediment Concentration	9.3	mg/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	HARD	Hardness as CaCO3	266	mg/l	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	COD	COD	3	mg/L	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	516	uS/cm	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	TEMP_FLD	Temperature (Field) Celsius	12.77	Deg C	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	PH_FLD	pH (Field)	8.52	S.U.	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	DO_FLD	Dissolved Oxygen (field) mg/L	117.4	mg/l	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	673	uS/cm	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	NH3	Ammonia as N	0	mg/L	0.5
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	NO3NO2	Nitrate + Nitrite	1.33	mg/L	0.5
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	TKN	Total Kjeldahl Nitrogen	0.7149	mg/L	0.5
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	TKP	Total Kjeldahl Phosphorus	0.1656	mg/L	0.5



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	NO2	Nitrite as N	0.0857	mg/l	0.005
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	NO3	Nitrate as N (calculated)	1.2443	mg/l	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	Aldrin	AA	ug/L	0.02
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	Chlordane	AA	ug/L	0.1
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	Dieldrin	AA	ug/L	0.02
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	Endrin	AA	ug/L	0.02
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	Heptachlor	AA	ug/L	0.02
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	Toxaphene	AA	ug/L	1.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	PCB 1016	AA	ug/L	0.5
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	PCB 1221	AA	ug/L	0.5
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	PCB 1232	AA	ug/L	0.5
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	PCB 1242	AA	ug/L	0.5
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	PCB 1248	AA	ug/L	0.5
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	PCB 1254	AA	ug/L	0.5
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	PCB 1260	AA	ug/L	0.5
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	Surr: Decachlorobiphenyl	0.964	%	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$PEST	Surr: Tetrachloro-m-xylene	0.853	%	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624	Bromochloromethane	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624	Chloromethane	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624	Vinyl Chloride	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		Bromomethane	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		Chloroethane	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		Acrolein	0	ug/L	50
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		Acrylonitrile	0	ug/L	100.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		Methylene Chloride	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		Chloroform	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		Benzene	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		Trichloroethene	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		2-Chloroethylvinylether	0	ug/L	50
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		Bromodichloromethane	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		Dibromochloromethane	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		Bromoform	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		Tetrachloroethene	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		Toluene	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		Toluene-d8	91	ug/L	81
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		Chlorobenzene	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		Ethylbenzene	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624		Bromofluorobenzene	98	ug/L	72

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624	2-Propanone	0	ug/L	60
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624	2-Butanone	0	ug/L	60
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$624	Dibromofluoromethane	99	ug/L	83
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	pyridine	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	2-Fluorophenol	35.4	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	aniline	0	ug/L	6.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	Phenol-d6	21.0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	Phenol	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	2-Chlorophenol	0	ug/L	6.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	n-decane	0	ug/L	6.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	o-cresol	0	ug/L	6.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	acetophenone	0	ug/L	6.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	Hexachloroethane	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	Nitrobenzene-d5	72.8	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	p-cresol	0	ug/L	6.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	Nitrobenzene	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	Isophorone	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	Decafluorobiphenyl	67.7	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	2-Nitrophenol	0	ug/L	6.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	Naphthalene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		1-Fluoronaphthalene	72.8	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		alpha terpineol	0	ug/L	6.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Acenaphthylene	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Acenaphthene	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		4-Nitrophenol	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Diethyl phthalate	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Fluorene	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		2,4,6-Tribromophenol	74.0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Pentachlorophenol	0	ug/L	6.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		n-octadecane	0	ug/L	6.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Phenanthrene	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Anthracene	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		carbazole	0	ug/L	6.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Fluoranthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Benzidine	0	ug/L	6.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Pyrene	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Chrysene	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Perylene-D12	50.0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Hexachloroethane	0	ug/L	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		2,3-Dichloroaniline	0	ug/L	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Diethylphthalate	0	ug/L	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		Benzo[ghi]perylene	0	ug/L	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		1,5-Heptadiene, 3,3,5-trimethyl- T	2	ug/L	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		2-Hexene, 3,5,5-trimethyl- T	5	ug/L	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		2-Hexene, 3,5,5-trimethyl- T2	1	ug/L	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	12	ug/L	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		2-Butenoic acid, (E)- T	1	ug/L	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		2-Butenal, 3-methyl- T	2	ug/L	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		2,4,4-Trimethyl-1-hexene T	1	ug/L	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625		1-Butanol, 3-methyl-, carbonate (2:1) T	6	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	1-Heptene, 4-methyl- T	3	ug/L	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	Pentane, 2,3,4-trimethyl- T	1	ug/L	
AC08222	LM03	Little Miami Watershed	3	10/8/2012	10:20	\$625	TOTAL AMOUNT	679	ug/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	MF_CF	Fecal Coliform, Membrane Filter	290	CFU/100mL	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	E-COLI	E.coli (Colilert)	488	MPN	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	TDS	Total Dissolved Solids	480	mg/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	SO4	Sulfate	56.0	mg/L	12.5
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	CL	Chloride	98.3	mg/L	1.00
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	TSS	Tot. Suspended Solids	26	mg/L	2
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	SSC	Suspended Sediment Concentration	25.2	mg/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	HARD	Hardness as CaCO3	262	mg/l	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	COD	COD	8	mg/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	545	uS/cm	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	TEMP_FLD	Temperature (Field) Celsius	13.60	Deg C	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	PH_FLD	pH (Field)	8.31	S.U.	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	DO_FLD	Dissolved Oxygen (field) mg/L	90.0	mg/l	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	697	uS/cm	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	NH3	Ammonia as N	0	mg/L	0.5
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	NO3NO2	Nitrate + Nitrite	3.41	mg/L	0.5
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	TKN	Total Kjeldahl Nitrogen	1.9929	mg/L	0.5
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	TKP	Total Kjeldahl Phosphorus	0.6259	mg/L	0.5
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	NO2	Nitrite as N	0.0075	mg/l	0.005
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	NO3	Nitrate as N (calculated)	3.4025	mg/l	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	CHLOROPHYLL	Chlorophyll	6.94	mg/m3	1.00
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	Aldrin	AA	ug/L	0.02
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	Chlordane	AA	ug/L	0.1
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	4,4-DDT	AA	ug/L	0.03

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	Dieldrin	AA	ug/L	0.02
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	Endrin	AA	ug/L	0.02
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	Heptachlor	AA	ug/L	0.02
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	Toxaphene	AA	ug/L	1.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	PCB 1016	AA	ug/L	0.5
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	PCB 1221	AA	ug/L	0.5
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	PCB 1232	AA	ug/L	0.5
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	PCB 1242	AA	ug/L	0.5
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	PCB 1248	AA	ug/L	0.5
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	PCB 1254	AA	ug/L	0.5
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	PCB 1260	AA	ug/L	0.5
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	Surr: Decachlorobiphenyl	0.869	%	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$PEST	Surr: Tetrachloro-m-xylene	0.750	%	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624	Bromochloromethane	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624	Chloromethane	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624	Vinyl Chloride	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624	Bromomethane	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624	Chloroethane	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624	Acrolein	0	ug/L	50
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624	Acrylonitrile	0	ug/L	100.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624	Methylene Chloride	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624	Chloroform	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		Benzene	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		Trichloroethene	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		2-Chloroethylvinylether	0	ug/L	50
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		Bromodichloromethane	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		Dibromochloromethane	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		Bromoform	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		Tetrachloroethene	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		Toluene	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		Toluene-d8	90	ug/L	81
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		Chlorobenzene	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		Ethylbenzene	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		Bromofluorobenzene	97	ug/L	72
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		2-Propanone	0	ug/L	60
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		2-Butanone	0	ug/L	60
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$624		Dibromofluoromethane	101	ug/L	83
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		pyridine	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		2-Fluorophenol	24.9	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		aniline	0	ug/L	6.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Phenol-d6	18.9	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Phenol	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		2-Chlorophenol	0	ug/L	6.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		n-decane	0	ug/L	6.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		o-cresol	0	ug/L	6.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		acetophenone	0	ug/L	6.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Hexachloroethane	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Nitrobenzene-d5	63.9	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		p-cresol	0	ug/L	6.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Nitrobenzene	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Isophorone	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Decafluorobiphenyl	48.2	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		2-Nitrophenol	0	ug/L	6.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Naphthalene	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		1-Fluoronaphthalene	55.2	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		alpha terpineol	0	ug/L	6.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Acenaphthylene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Acenaphthene	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		4-Nitrophenol	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Diethyl phthalate	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Fluorene	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		2,4,6-Tribromophenol	55.8	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Pentachlorophenol	0	ug/L	6.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		n-octadecane	0	ug/L	6.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Phenanthrene	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Anthracene	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		carbazole	0	ug/L	6.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Fluoranthene	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Benzidine	0	ug/L	6.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Pyrene	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Chrysene	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Perylene-D12	50.0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Benzo(b)fluoranthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Hexachloroethane	0	ug/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		2,3-Dichloroaniline	0	ug/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Diethylphthalate	0	ug/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Benzo[ghi]perylene	0	ug/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		1,5-Heptadiene, 3,3,5-trimethyl- T	2	ug/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Hexane, 1-(hexyloxy)-4-methyl- T	1	ug/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		2-Hexene, 2,5,5-trimethyl- T	4	ug/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	14	ug/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		2,4-Dimethyl-3-hexene(c,t) T	2	ug/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		2-Butenal, 3-methyl- T	7	ug/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		3-Nonyn-1-ol T	2	ug/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Pentane, 2,3,4-trimethyl- T	2	ug/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Decane, 3,3,4-trimethyl- T	14	ug/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Octane, 3-methyl-6-methylene- T	4	ug/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Pentane, 2,3,4-trimethyl- T2	2	ug/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		Cholesterol T	4	ug/L	
AC08223	LM04	Little Miami Watershed	4	10/8/2012	10:40	\$625		TOTAL AMOUNT	625	ug/L	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50		MF_CF	Fecal Coliform, Membrane Filter	29	CFU/100mL	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50		E-COLI	E.coli (Colilert)	93	MPN	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50		TDS	Total Dissolved Solids	390	mg/L	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50		BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50		SO4	Sulfate	37.4	mg/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50		CL	Chloride	76.1	mg/L	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	TSS	Tot. Suspended Solids	16	mg/L	2
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	SSC	Suspended Sediment Concentration	13.1	mg/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	HARD	Hardness as CaCO3	268	mg/l	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	COD	COD	5	mg/L	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	507	uS/cm	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	TEMP_FLD	Temperature (Field) Celsius	12.83	Deg C	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	PH_FLD	pH (Field)	8.66	S.U.	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	DO_FLD	Dissolved Oxygen (field) mg/L	122.3	mg/l	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	660	uS/cm	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	NH3	Ammonia as N	0	mg/L	0.5
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	NO3NO2	Nitrate + Nitrite	1.38	mg/L	0.5
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	TKN	Total Kjeldahl Nitrogen	0.5222	mg/L	0.5
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	TKP	Total Kjeldahl Phosphorus	0.1619	mg/L	0.5
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	NO2	Nitrite as N	0.0034	mg/l	0.005
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	NO3	Nitrate as N (calculated)	1.3766	mg/l	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	Aldrin	0	ug/L	.02
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	Alpha-BHC	0	ug/L	.02
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	Beta-BHC	0	ug/L	.02
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	Delta-BHC	0	ug/L	.02
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	Gamma-BHC	0	ug/L	.02
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	Chlordane	0	ug/L	.1
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	4,4-DDD	0	ug/L	.02
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	4,4-DDT	0	ug/L	.03
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	4,4-DDE	0	ug/L	.02
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	Dieldrin	0	ug/L	.02
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	Endosulfan I	0	ug/L	.05
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	Endosulfan II	0	ug/L	.02
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	Endosulfan sulfate	0	ug/L	.05
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	Endrin	0	ug/L	.02
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	Endrin aldehyde	0	ug/L	.02
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	Heptachlor	0	ug/L	.02
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	Heptachlor epoxide	0	ug/L	.05

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	Toxaphene	0	ug/L	1
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	PCB 1016	0	ug/L	0.5
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	PCB 1221	0	ug/L	0.5
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	PCB 1232	0	ug/L	0.5
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	PCB 1242	0	ug/L	0.5
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	PCB 1248	0	ug/L	0.5
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	PCB 1254	0	ug/L	0.5
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	PCB 1260	0	ug/L	0.5
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	Surr: Decachlorobiphenyl	94	%	11
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$PEST	Surr: Tetrachloro-m-xylene	85	%	48
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Bromochloromethane	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Chloromethane	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Vinyl Chloride	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Bromomethane	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Chloroethane	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Acrolein	0	ug/L	50
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Acrylonitrile	0	ug/L	100.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Methylene Chloride	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Chloroform	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Benzene	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Trichloroethene	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	2-Chloroethylvinylether	0	ug/L	50
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Bromodichloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Dibromochloromethane	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Bromoform	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Tetrachloroethene	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Toluene	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Toluene-d8	89	ug/L	81
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Chlorobenzene	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Ethylbenzene	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Bromofluorobenzene	97	ug/L	72
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	2-Propanone	0	ug/L	60
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	2-Butanone	0	ug/L	60
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$624	Dibromofluoromethane	93	ug/L	83
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	pyridine	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	2-Fluorophenol	25.2	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	aniline	0	ug/L	6.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Phenol-d6	16.7	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Phenol	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	2-Chlorophenol	0	ug/L	6.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	n-decane	0	ug/L	6.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	o-cresol	0	ug/L	6.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	acetophenone	0	ug/L	6.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		Hexachloroethane	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		Nitrobenzene-d5	66.8	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		p-cresol	0	ug/L	6.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		Nitrobenzene	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		Isophorone	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		Decafluorobiphenyl	61.6	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		2-Nitrophenol	0	ug/L	6.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		Naphthalene	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		1-Fluoronaphthalene	61.0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		alpha terpineol	0	ug/L	6.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		Acenaphthylene	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		Acenaphthene	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		4-Nitrophenol	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		Diethyl phthalate	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		Fluorene	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625		Phenanthrene-D10	50.0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	2,4,6-Tribromophenol	47.3	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Pentachlorophenol	0	ug/L	6.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	n-octadecane	0	ug/L	6.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Phenanthrene	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Anthracene	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	carbazole	0	ug/L	6.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Fluoranthene	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Benzidine	0	ug/L	6.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Pyrene	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Chrysene	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Perylene-D12	50.0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Hexachloroethane	0	ug/L	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	2,3-Dichloroaniline	0	ug/L	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Diethylphthalate	0	ug/L	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Benzo[ghi]perylene	0	ug/L	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	2,5-Cyclohexadien-1-one, 3,5-dihydroxy T	2	ug/L	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	2-Hexene, 3,5,5-trimethyl- T	6	ug/L	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Diazene, 1-cyclohexyl-2-ethoxy-, 1-oxi T	2	ug/L	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	6	ug/L	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	3-Hexene, 2,4-dimethyl- T	3	ug/L	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	9	ug/L	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	m-Menthane, (1S,3R)-(+)- T	3	ug/L	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Pentane, 2,3,4-trimethyl- T	3	ug/L	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Pentane, 2,3,4-trimethyl- T2	20	ug/L	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Octane, 3-methyl-6-methylene- T	5	ug/L	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Pentane, 2,3,4-trimethyl- T3	3	ug/L	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	Aniline T2	3	ug/L	
AC08224	LM05	Little Miami Watershed	5 (3261-08)	10/8/2012	10:50	\$625	TOTAL AMOUNT	647	ug/L	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	MF_CF	Fecal Coliform, Membrane Filter	150	CFU/100mL	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	E-COLI	E.coli (Colilert)	166	MPN	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	TDS	Total Dissolved Solids	320	mg/L	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	SO4	Sulfate	37.2	mg/L	12.5
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	CL	Chloride	73.3	mg/L	1.00
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	TSS	Tot. Suspended Solids	24	mg/L	2
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	SSC	Suspended Sediment Concentration	9.8	mg/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	HARD	Hardness as CaCO3	232	mg/l	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	COD	COD	6	mg/L	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	483	uS/cm	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	TEMP_FLD	Temperature (Field) Celsius	12.88	Deg C	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	PH_FLD	pH (Field)	8.62	S.U.	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	DO_FLD	Dissolved Oxygen (field) mg/L	105.1	mg/l	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	628	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	NH3	Ammonia as N	0	mg/L	0.5
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	NO3NO2	Nitrate + Nitrite	1.26	mg/L	0.5
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	TKN	Total Kjeldahl Nitrogen	0.9173	mg/L	0.5
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	TKP	Total Kjeldahl Phosphorus	0.1896	mg/L	0.5
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	NO2	Nitrite as N	0.0033	mg/l	0.005
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	NO3	Nitrate as N (calculated)	1.2567	mg/l	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	Aldrin	0	ug/L	.02
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	Alpha-BHC	0	ug/L	.02
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	Beta-BHC	0	ug/L	.02
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	Delta-BHC	0	ug/L	.02
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	Gamma-BHC	0	ug/L	.02
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	Chlordane	0	ug/L	0.1
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	4,4-DDD	0	ug/L	.02
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	4,4-DDT	0	ug/L	.03
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	4,4-DDE	0	ug/L	.02
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	Dieldrin	0	ug/L	.02
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	Endosulfan I	0	ug/L	.05
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	Endosulfan II	0	ug/L	.02
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	Endosulfan sulfate	0	ug/L	.05
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	Endrin	0	ug/L	.02
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	Endrin aldehyde	0	ug/L	.02
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	Heptachlor	0	ug/L	.02
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	Heptachlor epoxide	0	ug/L	.05
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	Toxaphene	0	ug/L	1
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	PCB 1016	0	ug/L	0.5
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	PCB 1221	0	ug/L	0.5
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	PCB 1232	0	ug/L	0.5
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	PCB 1242	0	ug/L	0.5
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	PCB 1248	0	ug/L	0.5
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	PCB 1254	0	ug/L	0.5
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	PCB 1260	0	ug/L	0.5
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	Surr: Decachlorobiphenyl	96	%	11

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$PEST	Surr: Tetrachloro-m-xylene	88	%	48
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Bromochloromethane	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Chloromethane	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Vinyl Chloride	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Bromomethane	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Chloroethane	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Acrolein	0	ug/L	50
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Acrylonitrile	0	ug/L	100.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Methylene Chloride	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Chloroform	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Benzene	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Trichloroethene	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	2-Chloroethylvinylether	0	ug/L	50
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Bromodichloromethane	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Dibromochloromethane	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Bromoform	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Tetrachloroethene	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Toluene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Toluene-d8	90	ug/L	81
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Chlorobenzene	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Ethylbenzene	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Bromofluorobenzene	98	ug/L	72
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	2-Propanone	0	ug/L	60
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	2-Butanone	0	ug/L	60
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$624	Dibromofluoromethane	92	ug/L	83
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	pyridine	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	2-Fluorophenol	22.4	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	aniline	0	ug/L	6.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Phenol-d6	22.2	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Phenol	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	2-Chlorophenol	0	ug/L	6.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	n-decane	0	ug/L	6.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	o-cresol	0	ug/L	6.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	acetophenone	0	ug/L	6.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Hexachloroethane	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Nitrobenzene-d5	80.7	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	p-cresol	0	ug/L	6.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Nitrobenzene	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Isophorone	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Decafluorobiphenyl	57.7	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	2-Nitrophenol	0	ug/L	6.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	2,4-Dimethylphenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Naphthalene	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	1-Fluoronaphthalene	69.5	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	alpha terpineol	0	ug/L	6.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Acenaphthylene	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Acenaphthene	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	4-Nitrophenol	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Diethyl phthalate	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Fluorene	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	2,4,6-Tribromophenol	44.2	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Pentachlorophenol	0	ug/L	6.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	n-octadecane	0	ug/L	6.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Phenanthrene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Anthracene	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		carbazole	0	ug/L	6.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Fluoranthene	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Benzidine	0	ug/L	6.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Pyrene	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Chrysene	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Perylene-D12	50.0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Hexachloroethane	0	ug/L	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		2,3-Dichloroaniline	0	ug/L	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Diethylphthalate	0	ug/L	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		Benzo[ghi]perylene	0	ug/L	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		2,5-Cyclohexadien-1-one, 3,5-dihydroxy T	2	ug/L	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		2-Hexene, 2,5,5-trimethyl- T	6	ug/L	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		2-Hexene, 3,5,5-trimethyl- T	2	ug/L	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625		1-Silacyclo-3-pentene T	2	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	6	ug/L	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Hexane, 3-methyl-4-methylene- T	4	ug/L	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	2-Butenal, 3-methyl- T	9	ug/L	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Cyclopentanone, 2-(1-methylpropyl)- T	2	ug/L	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Heptane, 3,3,5-trimethyl- T	3	ug/L	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Pentane, 2,3,4-trimethyl- T	18	ug/L	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Octane, 3-methyl-6-methylene- T	5	ug/L	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	Decane, 3,3,4-trimethyl- T	3	ug/L	
AC08225	LM06	Little Miami Watershed	6 (3261-07)	10/8/2012	11:10	\$625	TOTAL AMOUNT	659	ug/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	MF_CF	Fecal Coliform, Membrane Filter	86	CFU/100mL	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	E-COLI	E.coli (Colilert)	167	MPN	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	TDS	Total Dissolved Solids	320	mg/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	SO4	Sulfate	45.0	mg/L	12.5
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	CL	Chloride	80.6	mg/L	1.00
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	TSS	Tot. Suspended Solids	18	mg/L	2
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	SSC	Suspended Sediment Concentration	16.3	mg/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	HARD	Hardness as CaCO3	230	mg/l	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	COD	COD	4	mg/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	482	uS/cm	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	TEMP_FLD	Temperature (Field) Celsius	13.16	Deg C	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	PH_FLD	pH (Field)	8.70	S.U.	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	DO_FLD	Dissolved Oxygen (field) mg/L	118.3	mg/l	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	623	uS/cm	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	NO3NO2	Nitrate + Nitrite	1.26	mg/L	0.5
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	TKN	Total Kjeldahl Nitrogen	1.1872	mg/L	0.5
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	TKP	Total Kjeldahl Phosphorus	0.2300	mg/L	0.5
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	NO2	Nitrite as N	0.0032	mg/l	0.005
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	NO3	Nitrate as N (calculated)	1.2568	mg/l	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	CHLOROPHYLL	Chlorophyll	4.27	mg/m3	1.00
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	Aldrin	0	ug/L	.02
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	Alpha-BHC	0	ug/L	.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	Beta-BHC	0	ug/L	.02
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	Delta-BHC	0	ug/L	.02
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	Gamma-BHC	0	ug/L	.02
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	Chlordane	0	ug/L	0.1
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	4,4-DDD	0	ug/L	.02
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	4,4-DDT	0	ug/L	.03
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	4,4-DDE	0	ug/L	.02
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	Dieldrin	0	ug/L	.02
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	Endosulfan I	0	ug/L	.05
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	Endosulfan II	0	ug/L	.02
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	Endosulfan sulfate	0	ug/L	.05
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	Endrin	0	ug/L	.02
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	Endrin aldehyde	0	ug/L	.02
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	Heptachlor	0	ug/L	.02
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	Heptachlor epoxide	0	ug/L	.05
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	Toxaphene	0	ug/L	1
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	PCB 1016	0	ug/L	0.5
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	PCB 1221	0	ug/L	0.5
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	PCB 1232	0	ug/L	0.5
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	PCB 1242	0	ug/L	0.5
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	PCB 1248	0	ug/L	0.5
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	PCB 1254	0	ug/L	0.5
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	PCB 1260	0	ug/L	0.5
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	Surr: Decachlorobiphenyl	95	%	11
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$PEST	Surr: Tetrachloro-m-xylene	86	%	48
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624	Bromochloromethane	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624	Chloromethane	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624	Bromomethane	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624	Chloroethane	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624	Acrolein	0	ug/L	50
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624	1,1-Dichloroethene	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		Acrylonitrile	0	ug/L	100.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		Methylene Chloride	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		Chloroform	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		Benzene	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		Trichloroethene	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		2-Chloroethylvinylether	0	ug/L	50
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		Bromoform	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		Toluene	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		Toluene-d8	99	ug/L	81
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		Chlorobenzene	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		Ethylbenzene	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		Bromofluorobenzene	97	ug/L	72
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		2-Propanone	0	ug/L	60
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624		2-Butanone	0	ug/L	60

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$624	Dibromofluoromethane	103	ug/L	83
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	pyridine	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	2-Fluorophenol	33.0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	aniline	0	ug/L	6.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Phenol-d6	20.9	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Phenol	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	2-Chlorophenol	0	ug/L	6.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	n-decane	0	ug/L	6.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	o-cresol	0	ug/L	6.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	acetophenone	0	ug/L	6.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Hexachloroethane	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Nitrobenzene-d5	86.0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	p-cresol	0	ug/L	6.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Nitrobenzene	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Isophorone	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Decafluorobiphenyl	67.0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	2-Nitrophenol	0	ug/L	6.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Naphthalene	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	1-Fluoronaphthalene	78.6	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	alpha terpineol	0	ug/L	6.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Acenaphthene-d10	50.0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Acenaphthylene	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Acenaphthene	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	4-Nitrophenol	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Diethyl phthalate	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Fluorene	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	2,4,6-Tribromophenol	81.0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Pentachlorophenol	0	ug/L	6.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	n-octadecane	0	ug/L	6.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Phenanthrene	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Anthracene	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	carbazole	0	ug/L	6.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Fluoranthene	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Benzidine	0	ug/L	6.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Pyrene	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		Chrysene	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		Hexachloroethane	0	ug/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		Diethylphthalate	0	ug/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		2,3-Dimethyl-1-hexene T	3	ug/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		2-Hexene, 3,5,5-trimethyl- T	8	ug/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		2-Hexene, 3,5,5-trimethyl- T2	2	ug/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		2-Hexene, 4,4,5-trimethyl- T	2	ug/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	3	ug/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		Hexane, 3-methyl-4-methylene- T	4	ug/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		2-Butenal, 3-methyl- T	11	ug/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		2-Acetyl-6-methyl-2,3-dihydropyran T	3	ug/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		Undecane, 3,3-dimethyl- T	4	ug/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		Decane, 3,3,4-trimethyl- T	23	ug/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		1-Heptene, 4-methyl- T	6	ug/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		Hexane, 3,3,4-trimethyl- T	4	ug/L	
AC08226	LM08	Little Miami Watershed	8 (3261-06)	10/8/2012	11:30	\$625		TOTAL AMOUNT	737	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	MF_CF	Fecal Coliform, Membrane Filter	36	CFU/100mL	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	E-COLI	E.coli (Colilert)	53	MPN	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	TDS	Total Dissolved Solids	360	mg/L	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	SO4	Sulfate	41.2	mg/L	12.5
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	CL	Chloride	84.1	mg/L	1.00
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	TSS	Tot. Suspended Solids	11	mg/L	2
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	SSC	Suspended Sediment Concentration	9.2	mg/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	HARD	Hardness as CaCO3	254	mg/l	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	COD	COD	21	mg/L	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	533	uS/cm	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	TEMP_FLD	Temperature (Field) Celsius	12.30	Deg C	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	PH_FLD	pH (Field)	7.54	S.U.	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	DO_FLD	Dissolved Oxygen (field) mg/L	9.06	mg/l	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	704	uS/cm	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	NH3	Ammonia as N	0	mg/L	0.5
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	NO3NO2	Nitrate + Nitrite	1.91	mg/L	0.5
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	NO2	Nitrite as N	0.0088	mg/l	0.005
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	NO3	Nitrate as N (calculated)	1.9012	mg/l	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	CHLOROPHYLL	Chlorophyll	2.37	mg/m3	1.00
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	Aldrin	0	ug/L	.02
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	Alpha-BHC	0	ug/L	.02
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	Beta-BHC	0	ug/L	.02
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	Delta-BHC	0	ug/L	.02
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	Gamma-BHC	0	ug/L	.02
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	Chlordane	0	ug/L	1
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	4,4-DDD	0	ug/L	.02
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	4,4-DDT	0	ug/L	.03
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	4,4-DDE	0	ug/L	.02
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	Dieldrin	0	ug/L	.02
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	Endosulfan I	0	ug/L	.05

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	Endosulfan II	0	ug/L	.02
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	Endosulfan sulfate	0	ug/L	.05
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	Endrin	0	ug/L	.02
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	Endrin aldehyde	0	ug/L	.02
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	Heptachlor	0	ug/L	.02
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	Heptachlor epoxide	0	ug/L	.05
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	Toxaphene	0	ug/L	1
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	PCB 1016	0	ug/L	0.5
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	PCB 1221	0	ug/L	0.5
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	PCB 1232	0	ug/L	0.5
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	PCB 1242	0	ug/L	0.5
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	PCB 1248	0	ug/L	0.5
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	PCB 1254	0	ug/L	0.5
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	PCB 1260	0	ug/L	0.5
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	Surr: Decachlorobiphenyl	92	%	11
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$PEST	Surr: Tetrachloro-m-xylene	84	%	48
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	Bromochloromethane	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	Chloromethane	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	Bromomethane	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	Chloroethane	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	Acrolein	0	ug/L	100.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	Acrylonitrile	0	ug/L	100.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	Methylene Chloride	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	Chloroform	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	Benzene	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	Trichloroethene	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	Bromodichloromethane	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	Dibromochloromethane	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	Bromoform	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	Tetrachloroethene	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	Toluene	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	Toluene-d8	91	ug/L	70
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	Chlorobenzene	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	Ethylbenzene	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	2-Propanone	0	ug/L	60
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$624	2-Butanone	0	ug/L	60
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	pyridine	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	2-Fluorophenol	32.4	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	aniline	0	ug/L	6.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Phenol-d6	20.1	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Phenol	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	2-Chlorophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	n-decane	0	ug/L	6.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	o-cresol	0	ug/L	6.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	acetophenone	0	ug/L	6.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Hexachloroethane	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Nitrobenzene-d5	68.6	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	p-cresol	0	ug/L	6.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Nitrobenzene	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Isophorone	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Decafluorobiphenyl	47.5	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	2-Nitrophenol	0	ug/L	6.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Naphthalene	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	1-Fluoronaphthalene	58.8	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	alpha terpineol	0	ug/L	6.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Acenaphthylene	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Acenaphthene	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	4-Nitrophenol	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Diethyl phthalate	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Fluorene	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	2,4,6-Tribromophenol	64.0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Pentachlorophenol	0	ug/L	6.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	n-octadecane	0	ug/L	6.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Phenanthrene	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Anthracene	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	carbazole	0	ug/L	6.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Fluoranthene	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Benzidine	0	ug/L	6.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Pyrene	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Chrysene	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Perylene-D12	50.0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Hexachloroethane	0	ug/L	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	2,3-Dichloroaniline	0	ug/L	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Diethylphthalate	0	ug/L	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Benzo[ghi]perylene	0	ug/L	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Oxirane, 2-methyl-2-(1-methylethyl)- T	1	ug/L	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	2-Hexene, 3,5,5-trimethyl- T	3	ug/L	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	2-Hexene, 2,5,5-trimethyl- T	6	ug/L	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	2-Hexene, 3,5,5-trimethyl- T2	2	ug/L	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	1-(1-Methyl-cyclopentyl)-ethanone T	2	ug/L	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	3-Hexene, 2,3-dimethyl- T	3	ug/L	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	8	ug/L	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Cyclopropane, 1,1,2-trimethyl-3-(2-met T	2	ug/L	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Undecane, 3,3-dimethyl- T	3	ug/L	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Pentane, 2,3,4-trimethyl- T	16	ug/L	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Pentane, 3-ethyl- T	5	ug/L	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	Pentane, 2,3,4-trimethyl- T2	3	ug/L	
AC08307	LM07	Little Miami Watershed	7	10/9/2012	08:30	\$625	TOTAL AMOUNT	645	ug/L	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	MF_CF	Fecal Coliform, Membrane Filter	50	CFU/100mL	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	E-COLI	E.coli (Colilert)	69	MPN	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	TDS	Total Dissolved Solids	380	mg/L	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	SO4	Sulfate	38.0	mg/L	12.5
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	CL	Chloride	80.3	mg/L	1.00
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	TSS	Tot. Suspended Solids	10	mg/L	2
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	SSC	Suspended Sediment Concentration	11.3	mg/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	HARD	Hardness as CaCO3	238	mg/l	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	COD	COD	16	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	500	uS/cm	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	TEMP_FLD	Temperature (Field) Celsius	12.24	Deg C	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	PH_FLD	pH (Field)	7.52	S.U.	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	DO_FLD	Dissolved Oxygen (field) mg/L	9.68	mg/l	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	661	uS/cm	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	NH3	Ammonia as N	0	mg/L	0.5
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	NO3NO2	Nitrate + Nitrite	1.29	mg/L	0.5
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	NO2	Nitrite as N	0.0024	mg/l	0.005
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	NO3	Nitrate as N (calculated)	1.2876	mg/l	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	Aldrin	0	ug/L	.02
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	Alpha-BHC	0	ug/L	.02
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	Beta-BHC	0	ug/L	.02
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	Delta-BHC	0	ug/L	.02
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	Gamma-BHC	0	ug/L	.02
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	Chlordane	0	ug/L	.1
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	4,4-DDD	0	ug/L	.02
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	4,4-DDT	0	ug/L	.03
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	4,4-DDE	0	ug/L	.02
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	Dieldrin	0	ug/L	.02
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	Endosulfan I	0	ug/L	.05
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	Endosulfan II	0	ug/L	.02
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	Endosulfan sulfate	0	ug/L	.05
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	Endrin	0	ug/L	.02
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	Endrin aldehyde	0	ug/L	.02
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	Heptachlor	0	ug/L	.02
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	Heptachlor epoxide	0	ug/L	.05
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	Toxaphene	0	ug/L	1
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	PCB 1016	0	ug/L	0.5
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	PCB 1221	0	ug/L	0.5
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	PCB 1232	0	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	PCB 1242	0	ug/L	0.5
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	PCB 1248	0	ug/L	0.5
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	PCB 1254	0	ug/L	0.5
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	PCB 1260	0	ug/L	0.5
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	Surr: Decachlorobiphenyl	81	%	11
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$PEST	Surr: Tetrachloro-m-xylene	86	%	48
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	Bromochloromethane	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	Chloromethane	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	Vinyl Chloride	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	Bromomethane	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	Chloroethane	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	Acrolein	0	ug/L	100.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	Acrylonitrile	0	ug/L	100.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	Methylene Chloride	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	Chloroform	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	Benzene	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	Trichloroethene	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	Bromodichloromethane	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624	Dibromochloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624		Bromoform	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624		Tetrachloroethene	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624		Toluene	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624		Toluene-d8	90	ug/L	70
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624		Chlorobenzene	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624		Ethylbenzene	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624		2-Propanone	0	ug/L	60
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$624		2-Butanone	0	ug/L	60
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625		pyridine	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625		2-Fluorophenol	19.1	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625		aniline	0	ug/L	6.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625		Phenol-d6	13.8	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625		Phenol	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625		2-Chlorophenol	0	ug/L	6.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625		n-decane	0	ug/L	6.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625		o-cresol	0	ug/L	6.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625		acetophenone	0	ug/L	6.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625		Hexachloroethane	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625		Nitrobenzene-d5	56.6	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625		p-cresol	0	ug/L	6.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625		Nitrobenzene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Isophorone	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Decafluorobiphenyl	47.9	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	2-Nitrophenol	0	ug/L	6.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Naphthalene	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	1-Fluoronaphthalene	51.4	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	alpha terpineol	0	ug/L	6.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Acenaphthylene	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Acenaphthene	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	4-Nitrophenol	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Diethyl phthalate	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Fluorene	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	2,4,6-Tribromophenol	29.4	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Pentachlorophenol	0	ug/L	6.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	n-octadecane	0	ug/L	6.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Phenanthrene	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Anthracene	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	carbazole	0	ug/L	6.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Fluoranthene	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Benzidine	0	ug/L	6.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Pyrene	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Chrysene	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Perylene-D12	50.0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Hexachloroethane	0	ug/L	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	2,3-Dichloroaniline	0	ug/L	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Diethylphthalate	0	ug/L	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Benzo[ghi]perylene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Oxirane, 2-methyl-2-(1-methylethyl)- T	1	ug/L	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	2-Hexene, 2,5,5-trimethyl- T	2	ug/L	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	2-Hexene, 2,5,5-trimethyl- T2	6	ug/L	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	2-Hexene, 3,5,5-trimethyl- T	2	ug/L	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	2,3,3-Trimethyl-1-hexene T	2	ug/L	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	2-Pentene, 3-ethyl-2-methyl- T	3	ug/L	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	8	ug/L	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Cyclopropane, 1,1,2-trimethyl-3-(2-met T	2	ug/L	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Butane, 2-bromo-2-methyl- T	3	ug/L	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Decane, 3,3,4-trimethyl- T	18	ug/L	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Octane, 3-methyl-6-methylene- T	5	ug/L	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	Pentane, 2,3,4-trimethyl- T	3	ug/L	
AC08308	LM09	Little Miami Watershed	9	10/9/2012	09:15	\$625	TOTAL AMOUNT	574	ug/L	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	MF_CF	Fecal Coliform, Membrane Filter	14	CFU/100mL	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	E-COLI	E.coli (Colilert)	86	MPN	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	TDS	Total Dissolved Solids	360	mg/L	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	SO4	Sulfate	39.5	mg/L	12.5
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	CL	Chloride	77.9	mg/L	1.00
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	TSS	Tot. Suspended Solids	12	mg/L	2
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	SSC	Suspended Sediment Concentration	10.9	mg/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	HARD	Hardness as CaCO3	242	mg/l	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	COD	COD	22	mg/L	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	492	uS/cm	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	TEMP_FLD	Temperature (Field) Celsius	12.21	Deg C	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	PH_FLD	pH (Field)	7.49	S.U.	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	DO_FLD	Dissolved Oxygen (field) mg/L	8.92	mg/l	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	651	uS/cm	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	NH3	Ammonia as N	0	mg/L	0.5
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	NO3NO2	Nitrate + Nitrite	1.21	mg/L	0.5
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	TKN	Total Kjeldahl Nitrogen	0.6123	mg/L	0.5
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	NO2	Nitrite as N	0.0029	mg/l	0.005



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	NO3	Nitrate as N (calculated)	1.2071	mg/l	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	Aldrin	0	ug/L	.02
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	Alpha-BHC	0	ug/L	.02
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	Beta-BHC	0	ug/L	.02
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	Delta-BHC	0	ug/L	.02
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	Gamma-BHC	0	ug/L	.02
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	Chlordane	0	ug/L	.1
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	4,4-DDD	0	ug/L	.02
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	4,4-DDT	0	ug/L	.03
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	4,4-DDE	0	ug/L	.02
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	Dieldrin	0	ug/L	.02
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	Endosulfan I	0	ug/L	.05
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	Endosulfan II	0	ug/L	.02
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	Endosulfan sulfate	0	ug/L	.05
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	Endrin	0	ug/L	.02
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	Endrin aldehyde	0	ug/L	.02
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	Heptachlor	0	ug/L	.02
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	Heptachlor epoxide	0	ug/L	.05
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	Toxaphene	0	ug/L	1
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	PCB 1016	0	ug/L	0.5
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	PCB 1221	0	ug/L	0.5
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	PCB 1232	0	ug/L	0.5
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	PCB 1242	0	ug/L	0.5
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	PCB 1248	0	ug/L	0.5
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	PCB 1254	0	ug/L	0.5
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	PCB 1260	0	ug/L	0.5
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	Surr: Decachlorobiphenyl	104	%	11
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$PEST	Surr: Tetrachloro-m-xylene	105	%	48
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624	Bromochloromethane	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624	Chloromethane	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624	Bromomethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		Chloroethane	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		Acrolein	0	ug/L	100.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		Acrylonitrile	0	ug/L	100.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		Methylene Chloride	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		Chloroform	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		Benzene	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		Trichloroethene	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		Bromoform	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		Toluene	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		Toluene-d8	90	ug/L	70
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		Chlorobenzene	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		Ethylbenzene	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624	2-Propanone	0	ug/L	60
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$624	2-Butanone	0	ug/L	60
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	pyridine	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	2-Fluorophenol	27.5	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	aniline	0	ug/L	6.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Phenol-d6	23.3	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Phenol	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	2-Chlorophenol	0	ug/L	6.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	n-decane	0	ug/L	6.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	o-cresol	0	ug/L	6.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	acetophenone	0	ug/L	6.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Hexachloroethane	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Nitrobenzene-d5	72.1	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	p-cresol	0	ug/L	6.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Nitrobenzene	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Isophorone	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Decafluorobiphenyl	53.0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	2-Nitrophenol	0	ug/L	6.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Naphthalene	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	1-Fluoronaphthalene	61.5	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	alpha terpineol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Acenaphthylene	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Acenaphthene	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	4-Nitrophenol	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Diethyl phthalate	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Fluorene	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	2,4,6-Tribromophenol	53.4	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Pentachlorophenol	0	ug/L	6.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	n-octadecane	0	ug/L	6.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Phenanthrene	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Anthracene	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	carbazole	0	ug/L	6.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Fluoranthene	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Benzidine	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Pyrene	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Chrysene	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Perylene-D12	50.0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Hexachloroethane	0	ug/L	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	2,3-Dichloroaniline	0	ug/L	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Diethylphthalate	0	ug/L	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Benzo[ghi]perylene	0	ug/L	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Oxirane, 2-methyl-2-(1-methylethyl)- T	1	ug/L	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	2-Hexene, 2,5,5-trimethyl- T	2	ug/L	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	2-Hexene, 2,5,5-trimethyl- T2	6	ug/L	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	2-Hexene, 3,5,5-trimethyl- T	2	ug/L	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	1-(1-Methyl-cyclopentyl)-ethanone T	2	ug/L	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Hexane, 3-methyl-4-methylene- T	3	ug/L	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	9	ug/L	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Cyclohexane, 1-methyl-2-propyl- T	2	ug/L	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Pentane, 2,3,4-trimethyl- T	3	ug/L	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Decane, 3,3,4-trimethyl- T	20	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Octane, 3-methyl-6-methylene- T	5	ug/L	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	Decane, 3,3,4-trimethyl- T2	3	ug/L	
AC08309	LM10	Little Miami Watershed	10 (3261-10)	10/9/2012	09:30	\$625	TOTAL AMOUNT	651	ug/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	93	CFU/100mL	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	E-COLI	E.coli (Colilert)	54	MPN	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	TDS	Total Dissolved Solids	330	mg/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	SO4	Sulfate	41.0	mg/L	12.5
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	CL	Chloride	68.3	mg/L	1.00
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	TSS	Tot. Suspended Solids	32	mg/L	2
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	SSC	Suspended Sediment Concentration	9.5	mg/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	HARD	Hardness as CaCO3	224	mg/l	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	COD	COD	16	mg/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	453	uS/cm	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	12.43	Deg C	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	PH_FLD	pH (Field)	7.43	S.U.	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	9.83	mg/l	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	597	uS/cm	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	NO3NO2	Nitrate + Nitrite	1.39	mg/L	0.5
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	TKN	Total Kjeldahl Nitrogen	0.7089	mg/L	0.5
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	NO2	Nitrite as N	0.0014	mg/l	0.005
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	NO3	Nitrate as N (calculated)	1.3886	mg/l	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	Aldrin	0	ug/L	.02
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	Alpha-BHC	0	ug/L	.02
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	Beta-BHC	0	ug/L	.02
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	Delta-BHC	0	ug/L	.02
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	Gamma-BHC	0	ug/L	.02
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	Chlordane	0	ug/L	0.1
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	4,4-DDD	0	ug/L	.02
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	4,4-DDT	0	ug/L	.03

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	4,4-DDE	0	ug/L	.02
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	Dieldrin	0	ug/L	.02
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	Endosulfan I	0	ug/L	.05
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	Endosulfan II	0	ug/L	.02
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	Endosulfan sulfate	0	ug/L	.05
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	Endrin	0	ug/L	.02
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	Endrin aldehyde	0	ug/L	.02
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	Heptachlor	0	ug/L	.02
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	Heptachlor epoxide	0	ug/L	.05
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	Toxaphene	0	ug/L	1
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	PCB 1016	0	ug/L	0.5
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	PCB 1221	0	ug/L	0.5
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	PCB 1232	0	ug/L	0.5
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	PCB 1242	0	ug/L	0.5
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	PCB 1248	0	ug/L	0.5
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	PCB 1254	0	ug/L	0.5
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	PCB 1260	0	ug/L	0.5
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	Surr: Decachlorobiphenyl	96	%	11
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$PEST	Surr: Tetrachloro-m-xylene	94	%	48
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624	Bromochloromethane	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624	Chloromethane	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624	Bromomethane	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624	Chloroethane	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624	Acrolein	0	ug/L	100.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624	Acrylonitrile	0	ug/L	100.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624	Methylene Chloride	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624	Chloroform	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		Benzene	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		Trichloroethene	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		Bromodichloromethane	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		Bromoform	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		Toluene	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		Toluene-d8	91	ug/L	70
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		Chlorobenzene	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		Ethylbenzene	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		2-Propanone	0	ug/L	60
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$624		2-Butanone	0	ug/L	60
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		pyridine	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		2-Fluorophenol	22.3	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		aniline	7.2	ug/L	6.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Phenol-d6	15.0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Phenol	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		2-Chlorophenol	0	ug/L	6.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		n-decane	0	ug/L	6.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		o-cresol	0	ug/L	6.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		acetophenone	0	ug/L	6.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Hexachloroethane	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Nitrobenzene-d5	64.6	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		p-cresol	0	ug/L	6.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Nitrobenzene	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Isophorone	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Decafluorobiphenyl	48.3	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		2-Nitrophenol	0	ug/L	6.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Naphthalene	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		1-Fluoronaphthalene	60.0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		alpha terpineol	0	ug/L	6.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Acenaphthylene	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		2,6-Dinitrotoluene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Acenaphthene	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		4-Nitrophenol	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Diethyl phthalate	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Fluorene	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		2,4,6-Tribromophenol	60.8	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Pentachlorophenol	0	ug/L	6.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		n-octadecane	0	ug/L	6.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Phenanthrene	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Anthracene	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		carbazole	0	ug/L	6.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Fluoranthene	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Benzidine	0	ug/L	6.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Pyrene	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Chrysene	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Perylene-D12	50.0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Benzo(k)fluoranthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Hexachloroethane	0	ug/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		2,3-Dichloroaniline	0	ug/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Diethylphthalate	0	ug/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Benzo[ghi]perylene	0	ug/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		6,6-Dimethyl-cyclohex-2-en-1-ol T	2	ug/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		2-Hexene, 3,5,5-trimethyl- T	7	ug/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		2-Hexene, 2,5,5-trimethyl- T	2	ug/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		1-Silacyclo-3-pentene T	2	ug/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Hexane, 3-methyl-4-methylene- T	3	ug/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	9	ug/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		m-Menthane, (1S,3R)-(+)- T	3	ug/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Pentane, 1,1'-oxybis- T	3	ug/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Decane, 3,3,4-trimethyl- T	19	ug/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Octane, 3-methyl-6-methylene- T	5	ug/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Pentane, 2,3,4-trimethyl- T	3	ug/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		Benzene, isocyanato- T	1	ug/L	
AC08310	LM11	Little Miami Watershed	11	10/9/2012	10:00	\$625		TOTAL AMOUNT	637	ug/L	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20		MF_CF	Fecal Coliform, Membrane Filter	136	CFU/100mL	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20		E-COLI	E.coli (Colilert)	69	MPN	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20		TDS	Total Dissolved Solids	330	mg/L	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20		SO4	Sulfate	36.0	mg/L	12.5
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20		CL	Chloride	69.1	mg/L	1.00
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20		TSS	Tot. Suspended Solids	12	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	SSC	Suspended Sediment Concentration	9.0	mg/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	HARD	Hardness as CaCO3	226	mg/l	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	COD	COD	13	mg/L	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	433	uS/cm	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	TEMP_FLD	Temperature (Field) Celsius	12.78	Deg C	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	PH_FLD	pH (Field)	7.46	S.U.	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	DO_FLD	Dissolved Oxygen (field) mg/L	9.65	mg/l	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	565	uS/cm	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	NH3	Ammonia as N	0	mg/L	0.5
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	NO3NO2	Nitrate + Nitrite	1.32	mg/L	0.5
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	TKN	Total Kjeldahl Nitrogen	0.5461	mg/L	0.5
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	NO2	Nitrite as N	0.0043	mg/l	0.005
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	NO3	Nitrate as N (calculated)	1.3157	mg/l	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	Aldrin	0	ug/L	.02
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	Alpha-BHC	0	ug/L	.02
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	Beta-BHC	0	ug/L	.02
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	Delta-BHC	0	ug/L	.02
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	Gamma-BHC	0	ug/L	.02
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	Chlordane	0	ug/L	.1
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	4,4-DDD	0	ug/L	.02
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	4,4-DDT	0	ug/L	.03
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	4,4-DDE	0	ug/L	.02
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	Dieldrin	0	ug/L	.02
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	Endosulfan I	0	ug/L	.05
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	Endosulfan II	0	ug/L	.02
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	Endosulfan sulfate	0	ug/L	.05
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	Endrin	0	ug/L	.02
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	Endrin aldehyde	0	ug/L	.02
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	Heptachlor	0	ug/L	.02
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	Heptachlor epoxide	0	ug/L	.05
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	Toxaphene	0	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	PCB 1016	0	ug/L	0.5
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	PCB 1221	0	ug/L	0.5
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	PCB 1232	0	ug/L	0.5
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	PCB 1242	0	ug/L	0.5
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	PCB 1248	0	ug/L	0.5
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	PCB 1254	0	ug/L	0.5
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	PCB 1260	0	ug/L	0.5
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	Surr: Decachlorobiphenyl	99	%	11
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$PEST	Surr: Tetrachloro-m-xylene	103	%	48
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	Bromochloromethane	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	Chloromethane	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	Vinyl Chloride	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	Bromomethane	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	Chloroethane	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	Acrolein	0	ug/L	100.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	Acrylonitrile	0	ug/L	100.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	Methylene Chloride	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	Chloroform	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	Benzene	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	Trichloroethene	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	Bromodichloromethane	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	Dibromochloromethane	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	Bromoform	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	Tetrachloroethene	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	Toluene	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	Toluene-d8	90	ug/L	70
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	Chlorobenzene	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	Ethylbenzene	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	2-Propanone	0	ug/L	60
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$624	2-Butanone	0	ug/L	60
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	pyridine	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	2-Fluorophenol	19.6	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	aniline	0	ug/L	6.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Phenol-d6	14.2	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Phenol	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	2-Chlorophenol	0	ug/L	6.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	n-decane	0	ug/L	6.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	o-cresol	0	ug/L	6.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	acetophenone	0	ug/L	6.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Hexachloroethane	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Naphthalene-D8	50.0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Nitrobenzene-d5	55.5	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	p-cresol	0	ug/L	6.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Nitrobenzene	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Isophorone	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Decafluorobiphenyl	56.3	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	2-Nitrophenol	0	ug/L	6.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Naphthalene	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	1-Fluoronaphthalene	57.2	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	alpha terpineol	0	ug/L	6.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Acenaphthylene	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Acenaphthene	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	4-Nitrophenol	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Diethyl phthalate	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Fluorene	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	n-nitrosodiphenylamine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	2,4,6-Tribromophenol	27.6	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Pentachlorophenol	0	ug/L	6.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	n-octadecane	0	ug/L	6.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Phenanthrene	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Anthracene	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	carbazole	0	ug/L	6.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Fluoranthene	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Benzidine	0	ug/L	6.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Pyrene	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Chrysene	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Perylene-D12	50.0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Hexachloroethane	0	ug/L	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	2,3-Dichloroaniline	0	ug/L	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Diethylphthalate	0	ug/L	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625	Benzo[k]fluoranthene	0	ug/L	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625		Benzo[ghi]perylene	0	ug/L	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625		Cyclohexanone, 2-hydroxy- T	2	ug/L	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625		2-Hexene, 2,5,5-trimethyl- T	7	ug/L	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625		2-Hexene, 3,5,5-trimethyl- T	2	ug/L	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625		1-Silacyclo-3-pentene T	2	ug/L	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	14	ug/L	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625		Hexane, 3-methyl-4-methylene- T	4	ug/L	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	11	ug/L	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625		Cyclohexane, 1-methyl-4-(1-methylethyl T	3	ug/L	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625		Hexane, 3,3,4-trimethyl- T	3	ug/L	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625		Decane, 3,3,4-trimethyl- T	23	ug/L	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625		Octane, 3-methyl-6-methylene- T	6	ug/L	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625		Decane, 3,3,4-trimethyl- T2	3	ug/L	
AC08311	LM12	Little Miami Watershed	12 (3261-04)	10/9/2012	10:20	\$625		TOTAL AMOUNT	611	ug/L	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00		MF_CF	Fecal Coliform, Membrane Filter	79	CFU/100mL	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00		E-COLI	E.coli (Colilert)	66	MPN	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00		TDS	Total Dissolved Solids	330	mg/L	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00		SO4	Sulfate	40.2	mg/L	12.5
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00		CL	Chloride	67.0	mg/L	1.00
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00		TSS	Tot. Suspended Solids	6	mg/L	2
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00		SSC	Suspended Sediment Concentration	9.6	mg/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00		HARD	Hardness as CaCO3	218	mg/l	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00		COD	COD	17	mg/L	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	460	uS/cm	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00		TEMP_FLD	Temperature (Field) Celsius	13.12	Deg C	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00		PH_FLD	pH (Field)	7.58	S.U.	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00		DO_FLD	Dissolved Oxygen (field) mg/L	9.60	mg/l	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00		CONDUCTIVITY	Specific Conductivity (uS/cm)	594	uS/cm	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00		NH3	Ammonia as N	0	mg/L	0.5
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00		NO3NO2	Nitrate + Nitrite	1.28	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	NO2	Nitrite as N	0.0040	mg/l	0.005
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	NO3	Nitrate as N (calculated)	1.2760	mg/l	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	Aldrin	0	ug/L	.02
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	Alpha-BHC	0	ug/L	.02
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	Beta-BHC	0	ug/L	.02
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	Delta-BHC	0	ug/L	.02
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	Gamma-BHC	0	ug/L	.02
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	Chlordane	0	ug/L	.1
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	4,4-DDD	0	ug/L	.02
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	4,4-DDT	0	ug/L	.03
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	4,4-DDE	0	ug/L	.02
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	Dieldrin	0	ug/L	.02
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	Endosulfan I	0	ug/L	.05
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	Endosulfan II	0	ug/L	.02
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	Endosulfan sulfate	0	ug/L	.05
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	Endrin	0	ug/L	.02
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	Endrin aldehyde	0	ug/L	.02
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	Heptachlor	0	ug/L	.02
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	Heptachlor epoxide	0	ug/L	.05
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	Toxaphene	0	ug/L	1
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	PCB 1016	0	ug/L	0.5
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	PCB 1221	0	ug/L	0.5
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	PCB 1232	0	ug/L	0.5
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	PCB 1242	0	ug/L	0.5
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	PCB 1248	0	ug/L	0.5
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	PCB 1254	0	ug/L	0.5
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	PCB 1260	0	ug/L	0.5
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	Surr: Decachlorobiphenyl	98	%	11
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$PEST	Surr: Tetrachloro-m-xylene	100	%	48
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624	Bromochloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		Chloromethane	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		Vinyl Chloride	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		Bromomethane	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		Chloroethane	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		Acrolein	0	ug/L	100.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		Acrylonitrile	0	ug/L	100.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		Methylene Chloride	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		Chloroform	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		Benzene	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		Trichloroethene	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		Bromodichloromethane	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		Bromoform	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		Toluene	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		Toluene-d8	90	ug/L	70
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		Chlorobenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		Ethylbenzene	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		2-Propanone	0	ug/L	60
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$624		2-Butanone	0	ug/L	60
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		pyridine	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		2-Fluorophenol	27.4	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		aniline	0	ug/L	6.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Phenol-d6	26.0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Phenol	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		2-Chlorophenol	0	ug/L	6.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		n-decane	0	ug/L	6.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		o-cresol	0	ug/L	6.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		acetophenone	0	ug/L	6.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Hexachloroethane	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Nitrobenzene-d5	85.2	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		p-cresol	0	ug/L	6.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Nitrobenzene	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Isophorone	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Decafluorobiphenyl	72.3	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		2-Nitrophenol	0	ug/L	6.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Naphthalene	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		1-Fluoronaphthalene	80.4	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		alpha terpineol	0	ug/L	6.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Acenaphthylene	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Acenaphthene	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		4-Nitrophenol	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Diethyl phthalate	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Fluorene	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		2,4,6-Tribromophenol	44.8	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Pentachlorophenol	0	ug/L	6.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		n-octadecane	0	ug/L	6.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Phenanthrene	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Anthracene	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		carbazole	0	ug/L	6.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Fluoranthene	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Benzidine	0	ug/L	6.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Pyrene	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Chrysene	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Perylene-D12	50.0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Hexachloroethane	0	ug/L	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		2,3-Dichloroaniline	0	ug/L	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Diethylphthalate	0	ug/L	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Benzo[ghi]perylene	0	ug/L	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		2-Hexene, 3,5,5-trimethyl- T	3	ug/L	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		2-Hexene, 2,5,5-trimethyl- T	7	ug/L	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		2-Hexene, 3,5,5-trimethyl- T2	2	ug/L	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		1-Pentene, 3-ethyl-2-methyl- T	3	ug/L	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	110	ug/L	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Cyclopentane, 1,1,3,4-tetramethyl-, ci T	4	ug/L	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	11	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625	3-Heptene, 4-propyl- T	2	ug/L	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625	Butane, 2-bromo-2-methyl- T	4	ug/L	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625	1-Butanol, 3-methyl-, carbonate (2:1) T	23	ug/L	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625	1,3-Cyclobutanedione, 2,2,4,4-tetramet T	6	ug/L	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625	Decane, 3,3,4-trimethyl- T	4	ug/L	
AC08312	LM13	Little Miami Watershed	13 (3261-03)	10/9/2012	11:00	\$625	TOTAL AMOUNT	814	ug/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	MF_CF	Fecal Coliform, Membrane Filter	79	CFU/100mL	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	E-COLI	E.coli (Colilert)	57	MPN	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	TDS	Total Dissolved Solids	400	mg/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	SO4	Sulfate	60.8	mg/L	12.5
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	CL	Chloride	75.3	mg/L	1.00
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	TSS	Tot. Suspended Solids	6	mg/L	2
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	SSC	Suspended Sediment Concentration	36.1	mg/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	HARD	Hardness as CaCO3	240	mg/l	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	COD	COD	18	mg/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	462	uS/cm	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	TEMP_FLD	Temperature (Field) Celsius	13.39	Deg C	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	PH_FLD	pH (Field)	7.48	S.U.	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	DO_FLD	Dissolved Oxygen (field) mg/L	8.96	mg/l	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	594	uS/cm	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	NO3NO2	Nitrate + Nitrite	1.20	mg/L	0.5
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	NO2	Nitrite as N	0.0037	mg/l	0.005
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	NO3	Nitrate as N (calculated)	1.1963	mg/l	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	Aldrin	0	ug/L	.02
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	Alpha-BHC	0	ug/L	.02
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	Beta-BHC	0	ug/L	.02
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	Delta-BHC	0	ug/L	.02
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	Gamma-BHC	0	ug/L	.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	Chlordane	0	ug/L	0.1
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	4,4-DDD	0	ug/L	.02
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	4,4-DDT	0	ug/L	.03
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	4,4-DDE	0	ug/L	.02
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	Dieldrin	0	ug/L	.02
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	Endosulfan I	0	ug/L	.05
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	Endosulfan II	0	ug/L	.02
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	Endosulfan sulfate	0	ug/L	.05
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	Endrin	0	ug/L	.02
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	Endrin aldehyde	0	ug/L	.02
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	Heptachlor	0	ug/L	.02
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	Heptachlor epoxide	0	ug/L	.05
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	Toxaphene	0	ug/L	1
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	PCB 1016	0	ug/L	0.5
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	PCB 1221	0	ug/L	0.5
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	PCB 1232	0	ug/L	0.5
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	PCB 1242	0	ug/L	0.5
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	PCB 1248	0	ug/L	0.5
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	PCB 1254	0	ug/L	0.5
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	PCB 1260	0	ug/L	0.5
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	Surr: Decachlorobiphenyl	0	%	11
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$PEST	Surr: Tetrachloro-m-xylene	0	%	48
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624	Bromochloromethane	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624	Chloromethane	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624	Bromomethane	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624	Chloroethane	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624	Acrolein	0	ug/L	100.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624	Acrylonitrile	0	ug/L	100.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624	Methylene Chloride	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		Chloroform	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		Benzene	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		Trichloroethene	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		Bromoform	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		Toluene	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		Toluene-d8	89	ug/L	70
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		Chlorobenzene	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		Ethylbenzene	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		2-Propanone	0	ug/L	60
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$624		2-Butanone	0	ug/L	60
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		pyridine	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		2-Fluorophenol	24.6	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		aniline	0	ug/L	6.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Phenol-d6	17.9	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Phenol	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		n-decane	0	ug/L	6.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		o-cresol	0	ug/L	6.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		acetophenone	0	ug/L	6.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Hexachloroethane	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Nitrobenzene-d5	70.8	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		p-cresol	0	ug/L	6.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Nitrobenzene	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Isophorone	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Decafluorobiphenyl	69.9	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Naphthalene	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		1-Fluoronaphthalene	75.2	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		alpha terpineol	0	ug/L	6.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		2-Chloronaphthalene	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Acenaphthylene	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Acenaphthene	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		4-Nitrophenol	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Diethyl phthalate	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Fluorene	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		2,4,6-Tribromophenol	53.4	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Pentachlorophenol	0	ug/L	6.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		n-octadecane	0	ug/L	6.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Phenanthrene	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Anthracene	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		carbazole	0	ug/L	6.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Fluoranthene	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Benzidine	0	ug/L	6.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Pyrene	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Chrysene	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Hexachloroethane	0	ug/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Diethylphthalate	0	ug/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Cyclobutane, 2-hexyl-1,1,4-trimethyl- T	2	ug/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		2-Hexene, 2,5,5-trimethyl- T	6	ug/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		2-Hexene, 3,5,5-trimethyl- T	2	ug/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		1-Silacyclo-3-pentene T	2	ug/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	34	ug/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Hexane, 3-methyl-4-methylene- T	4	ug/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	10	ug/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T2	2	ug/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Pentane, 2,3,4-trimethyl- T	4	ug/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Decane, 3,3,4-trimethyl- T	20	ug/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Octane, 3-methyl-6-methylene- T	5	ug/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		Pentane, 2,3,4-trimethyl- T2	3	ug/L	
AC08313	LM14	Little Miami Watershed	14	10/9/2012	11:30	\$625		TOTAL AMOUNT	705	ug/L	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45		MF_CF	Fecal Coliform, Membrane Filter	157	CFU/100mL	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45		E-COLI	E.coli (Colilert)	161	MPN	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45		TDS	Total Dissolved Solids	340	mg/L	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45		BOD	Biochemical Oxygen Demand	2	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	SO4	Sulfate	34.0	mg/L	12.5
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	CL	Chloride	45.3	mg/L	1.00
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	TSS	Tot. Suspended Solids	2	mg/L	2
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	HARD	Hardness as CaCO3	342	mg/l	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	COD	COD	6	mg/L	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	579	uS/cm	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	TEMP_FLD	Temperature (Field) Celsius	12.44	Deg C	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	PH_FLD	pH (Field)	7.38	S.U.	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	DO_FLD	Dissolved Oxygen (field) mg/L	4.80	mg/l	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	762	uS/cm	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$ICP	Aluminum	0.000	mg/L	0.348
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$ICP	Antimony	0.000	mg/L	0.006
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$ICP	Arsenic	0.000	mg/L	0.012
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$ICP	Barium	0.061	mg/L	0.003
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$ICP	Beryllium	0.000	mg/L	0.009
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$ICP	Cadmium	0.000	mg/L	0.012
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$ICP	Calcium	117.102	mg/L	0.066
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$ICP	Chromium	0.000	mg/L	0.006
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$ICP	Cobalt	0.000	mg/L	0.006
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$ICP	Copper	0.007	mg/L	0.006
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$ICP	Iron	0.036	mg/L	0.018
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$ICP	Lead	0.000	mg/L	0.006
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$ICP	Magnesium	22.015	mg/L	0.021
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$ICP	Manganese	0.029	mg/L	0.009
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$ICP	Nickel	0.000	mg/L	0.003
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$ICP	Selenium	0.037	mg/L	0.009
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$ICP	Silver	0.000	mg/L	0.003
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$ICP	Strontium	0.264	mg/L	0.009
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$ICP	Thallium	0.018	mg/L	0.012
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$ICP	Tin	0.000	mg/L	0.006
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$ICP	Vanadium	0.000	mg/L	0.018
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$ICP	Zinc	0.000	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	PB_FU	Lead by Furnace	0.03	ug/L	1.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	AS_FU	Arsenic by Furnace	0.21	ug/L	1.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	CU_FU	Copper by Furnace	AA	ug/L	1
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	NH3	Ammonia as N	0	mg/L	0.5
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	NO3NO2	Nitrate + Nitrite	1.42	mg/L	0.5
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	NO2	Nitrite as N	0	mg/l	0.005
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	NO3	Nitrate as N (calculated)	1.4200	mg/l	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	Aldrin	0	ug/L	.02
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	Alpha-BHC	0	ug/L	.02
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	Beta-BHC	0	ug/L	.02
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	Delta-BHC	0	ug/L	.02
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	Gamma-BHC	0	ug/L	.02
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	Chlordane	0	ug/L	0.1
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	4,4-DDD	0	ug/L	.02
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	4,4-DDT	0	ug/L	.03
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	4,4-DDE	0	ug/L	.02
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	Dieldrin	0	ug/L	.02
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	Endosulfan I	0	ug/L	.05
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	Endosulfan II	0	ug/L	.02
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	Endosulfan sulfate	0	ug/L	.05
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	Endrin	0	ug/L	.02
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	Endrin aldehyde	0	ug/L	.02
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	Heptachlor	0	ug/L	.02
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	Heptachlor epoxide	0	ug/L	.05
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	Toxaphene	0	ug/L	1
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	PCB 1016	0	ug/L	0.5
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	PCB 1221	0	ug/L	0.5
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	PCB 1232	0	ug/L	0.5
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	PCB 1242	0	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	PCB 1248	0	ug/L	0.5
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	PCB 1254	0	ug/L	0.5
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	PCB 1260	0	ug/L	0.5
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	Surr: Decachlorobiphenyl	92	%	11
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$PEST	Surr: Tetrachloro-m-xylene	84	%	48
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	Bromochloromethane	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	Chloromethane	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	Vinyl Chloride	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	Bromomethane	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	Chloroethane	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	Acrolein	0	ug/L	100.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	Acrylonitrile	0	ug/L	100.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	Methylene Chloride	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	Chloroform	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	Benzene	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	Trichloroethene	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	Bromodichloromethane	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	Dibromochloromethane	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	Bromoform	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	Tetrachloroethene	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	Toluene	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	Toluene-d8	89	ug/L	70
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	Chlorobenzene	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	Ethylbenzene	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	2-Propanone	0	ug/L	60
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$624	2-Butanone	0	ug/L	60
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	pyridine	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	2-Fluorophenol	40.2	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	aniline	0	ug/L	6.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Phenol-d6	23.2	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Phenol	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	2-Chlorophenol	0	ug/L	6.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	n-decane	0	ug/L	6.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	o-cresol	0	ug/L	6.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	acetophenone	0	ug/L	6.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Hexachloroethane	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Nitrobenzene-d5	79.0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	p-cresol	0	ug/L	6.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Nitrobenzene	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Isophorone	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Decafluorobiphenyl	82.6	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	2-Nitrophenol	0	ug/L	6.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Naphthalene	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	1-Fluoronaphthalene	80.7	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	alpha terpineol	0	ug/L	6.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Acenaphthylene	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Acenaphthene	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	4-Nitrophenol	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Diethyl phthalate	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Fluorene	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	2,4,6-Tribromophenol	73.0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Hexachlorobenzene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Pentachlorophenol	0	ug/L	6.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	n-octadecane	0	ug/L	6.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Phenanthrene	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Anthracene	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	carbazole	0	ug/L	6.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Fluoranthene	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Benzidine	0	ug/L	6.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Pyrene	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Chrysene	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Perylene-D12	50.0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Hexachloroethane	0	ug/L	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	2,3-Dichloroaniline	0	ug/L	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Diethylphthalate	0	ug/L	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Benzo[ghi]perylene	0	ug/L	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Hexane, 1-(hexyloxy)-4-methyl- T	3	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	2-Hexene, 2,5,5-trimethyl- T	7	ug/L	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	2-Hexene, 3,5,5-trimethyl- T	2	ug/L	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	2-Heptene, 5-ethyl-2,4-dimethyl- T	2	ug/L	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	8	ug/L	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	3-Ethyl-3-hexene T	4	ug/L	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	2-Butenal, 3-methyl- T	11	ug/L	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	m-Menthane, (1S,3R)-(+)- T	3	ug/L	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Carbonic acid, dipentyl ester T	4	ug/L	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Pentane, 2,3,4-trimethyl- T	23	ug/L	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Octane, 3-methyl-6-methylene- T	6	ug/L	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	Pentane, 2,3,4-trimethyl- T2	3	ug/L	
AC08368	RF09	Little Miami Watershed	09	10/10/2012	08:45	\$625	TOTAL AMOUNT	754	ug/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	MF_CF	Fecal Coliform, Membrane Filter	136	CFU/100mL	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	E-COLI	E.coli (Colilert)	167	MPN	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	TDS	Total Dissolved Solids	330	mg/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	SO4	Sulfate	56.2	mg/L	1.00
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	CL	Chloride	63.2	mg/L	1.00
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	TSS	Tot. Suspended Solids	4	mg/L	2
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	SSC	Suspended Sediment Concentration	12.3	mg/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	HARD	Hardness as CaCO3	284	mg/l	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	COD	COD	10	mg/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	498	uS/cm	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	TEMP_FLD	Temperature (Field) Celsius	10.60	Deg C	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	PH_FLD	pH (Field)	8.21	S.U.	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	DO_FLD	Dissolved Oxygen (field) mg/L	10.77	mg/l	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	687	uS/cm	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$ICP	Aluminum	0.530	mg/L	0.348
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$ICP	Antimony	0.000	mg/L	0.006
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$ICP	Arsenic	0.000	mg/L	0.012
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$ICP	Barium	0.062	mg/L	0.003
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$ICP	Beryllium	0.000	mg/L	0.009
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$ICP	Cadmium	0.000	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$ICP	Calcium	83.832	mg/L	0.066
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$ICP	Chromium	0.000	mg/L	0.006
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$ICP	Cobalt	0.000	mg/L	0.006
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$ICP	Copper	0.008	mg/L	0.006
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$ICP	Iron	1.255	mg/L	0.018
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$ICP	Lead	0.000	mg/L	0.006
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$ICP	Magnesium	21.841	mg/L	0.021
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$ICP	Manganese	0.182	mg/L	0.009
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$ICP	Nickel	0.000	mg/L	0.003
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$ICP	Selenium	0.026	mg/L	0.009
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$ICP	Silver	0.000	mg/L	0.003
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$ICP	Strontium	0.311	mg/L	0.009
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$ICP	Thallium	0.016	mg/L	0.012
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$ICP	Tin	0.000	mg/L	0.006
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$ICP	Vanadium	0.000	mg/L	0.018
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$ICP	Zinc	0.007	mg/L	0.006
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	PB_FU	Lead by Furnace	1.90	ug/L	1.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	AS_FU	Arsenic by Furnace	1.18	ug/L	1.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	CU_FU	Copper by Furnace	2.3	ug/L	1
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	NH3	Ammonia as N	0	mg/L	0.5
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	TKN	Total Kjeldahl Nitrogen	0.5183	mg/L	0.5
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	NO2	Nitrite as N	0.0023	mg/l	0.005
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	Aldrin	0	ug/L	.02
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	Alpha-BHC	0	ug/L	.02
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	Beta-BHC	0	ug/L	.02
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	Delta-BHC	0	ug/L	.02
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	Gamma-BHC	0	ug/L	.02
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	Chlordane	0	ug/L	0.1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	4,4-DDD	0	ug/L	.02
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	4,4-DDT	0	ug/L	.03
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	4,4-DDE	0	ug/L	.02
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	Dieldrin	0	ug/L	.05
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	Endosulfan I	0	ug/L	.02
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	Endosulfan II	0	ug/L	.05
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	Endosulfan sulfate	0	ug/L	.02
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	Endrin	0	ug/L	.02
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	Endrin aldehyde	0	ug/L	.02
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	Heptachlor	0	ug/L	.02
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	Heptachlor epoxide	0	ug/L	.05
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	Toxaphene	0	ug/L	1
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	PCB 1016	0	ug/L	0.5
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	PCB 1221	0	ug/L	0.5
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	PCB 1232	0	ug/L	0.5
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	PCB 1242	0	ug/L	0.5
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	PCB 1248	0	ug/L	0.5
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	PCB 1254	0	ug/L	0.5
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	PCB 1260	0	ug/L	0.5
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	Surr: Decachlorobiphenyl	101	%	11
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$PEST	Surr: Tetrachloro-m-xylene	95	%	48
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624	Bromochloromethane	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624	Chloromethane	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624	Bromomethane	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624	Chloroethane	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624	Acrolein	0	ug/L	100.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624	Acrylonitrile	0	ug/L	100.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624	Methylene Chloride	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624	1,1-Dichloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		Chloroform	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		Benzene	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		Trichloroethene	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		Bromodichloromethane	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		Bromoform	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		Toluene	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		Toluene-d8	91	ug/L	70
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		Chlorobenzene	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		Ethylbenzene	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		2-Propanone	0	ug/L	60
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$624		2-Butanone	0	ug/L	60
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625		pyridine	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625		2-Fluorophenol	22.7	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	aniline	0	ug/L	6.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Phenol-d6	16.8	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Phenol	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	2-Chlorophenol	0	ug/L	6.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	n-decane	0	ug/L	6.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	o-cresol	0	ug/L	6.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	acetophenone	0	ug/L	6.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Hexachloroethane	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Nitrobenzene-d5	75.4	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	p-cresol	0	ug/L	6.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Nitrobenzene	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Isophorone	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Decafluorobiphenyl	77.0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	2-Nitrophenol	0	ug/L	6.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Naphthalene	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	1-Fluoronaphthalene	78.8	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	alpha terpineol	0	ug/L	6.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Dimethyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Acenaphthylene	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Acenaphthene	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	4-Nitrophenol	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Diethyl phthalate	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Fluorene	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	2,4,6-Tribromophenol	31.8	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Pentachlorophenol	0	ug/L	6.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	n-octadecane	0	ug/L	6.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Phenanthrene	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Anthracene	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	carbazole	0	ug/L	6.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Fluoranthene	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Benzidine	0	ug/L	6.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Pyrene	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Chrysene	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Perylene-D12	50.0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Hexachloroethane	0	ug/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	2,3-Dichloroaniline	0	ug/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Diethylphthalate	0	ug/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Benzo[ghi]perylene	0	ug/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	6,6-Dimethyl-cyclohex-2-en-1-ol T	2	ug/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	2-Hexene, 2,5,5-trimethyl- T	5	ug/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	2-Hexene, 2,5,5-trimethyl- T2	2	ug/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	2-Hexene, 4,4,5-trimethyl- T	2	ug/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	26	ug/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Hexane, 3-methyl-4-methylene- T	4	ug/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	2-Butenal, 3-methyl- T	9	ug/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Ethane, 1,1,2,2-tetrachloro- T	2	ug/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Pentane, 2,3,4-trimethyl- T	4	ug/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Pentane, 2,3,4-trimethyl- T2	18	ug/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Octane, 3-methyl-6-methylene- T	5	ug/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	Hexane, 3,3,4-trimethyl- T	3	ug/L	
AC08369	RF08	Little Miami Watershed	08	10/10/2012	09:00	\$625	TOTAL AMOUNT	685	ug/L	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	MF_CF	Fecal Coliform, Membrane Filter	79	CFU/100mL	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	E-COLI	E.coli (Colilert)	68	MPN	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	TDS	Total Dissolved Solids	290	mg/L	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	SO4	Sulfate	30.0	mg/L	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	CL	Chloride	24.0	mg/L	1.00
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	TSS	Tot. Suspended Solids	4	mg/L	2
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	HARD	Hardness as CaCO3	302	mg/l	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	COD	COD	13	mg/L	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	458	uS/cm	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	TEMP_FLD	Temperature (Field) Celsius	11.12	Deg C	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	PH_FLD	pH (Field)	7.83	S.U.	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	DO_FLD	Dissolved Oxygen (field) mg/L	8.96	mg/l	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	624	uS/cm	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$ICP	Aluminum	0.000	mg/L	0.348
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$ICP	Antimony	0.000	mg/L	0.006
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$ICP	Arsenic	0.000	mg/L	0.012
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$ICP	Barium	0.076	mg/L	0.003
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$ICP	Beryllium	0.000	mg/L	0.009
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$ICP	Cadmium	0.000	mg/L	0.012
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$ICP	Calcium	87.527	mg/L	0.066
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$ICP	Chromium	0.000	mg/L	0.006
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$ICP	Cobalt	0.000	mg/L	0.006
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$ICP	Copper	0.000	mg/L	0.006
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$ICP	Iron	0.035	mg/L	0.018
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$ICP	Lead	0.000	mg/L	0.006
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$ICP	Magnesium	26.281	mg/L	0.021
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$ICP	Manganese	0.000	mg/L	0.009
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$ICP	Nickel	0.000	mg/L	0.003
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$ICP	Selenium	0.029	mg/L	0.009
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$ICP	Silver	0.000	mg/L	0.003
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$ICP	Strontium	0.160	mg/L	0.009
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$ICP	Thallium	0.015	mg/L	0.012
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$ICP	Tin	0.000	mg/L	0.006
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$ICP	Vanadium	0.000	mg/L	0.018
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$ICP	Zinc	0.000	mg/L	0.006
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	PB_FU	Lead by Furnace	0.04	ug/L	1.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	AS_FU	Arsenic by Furnace	0.30	ug/L	1.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	CU_FU	Copper by Furnace	AA	ug/L	1
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	NH3	Ammonia as N	0	mg/L	0.5
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	NO2	Nitrite as N	0	mg/l	0.005
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	Aldrin	0	ug/L	.02
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	Alpha-BHC	0	ug/L	.02
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	Beta-BHC	0	ug/L	.02
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	Delta-BHC	0	ug/L	.02
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	Gamma-BHC	0	ug/L	.02
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	Chlordane	0	ug/L	0.1
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	4,4-DDD	0	ug/L	.02
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	4,4-DDT	0	ug/L	.03
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	4,4-DDE	0	ug/L	.02
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	Dieldrin	0	ug/L	.02
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	Endosulfan I	0	ug/L	.05
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	Endosulfan II	0	ug/L	.02
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	Endosulfan sulfate	0	ug/L	.05
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	Endrin	0	ug/L	.02
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	Endrin aldehyde	0	ug/L	.02
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	Heptachlor	0	ug/L	.02
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	Heptachlor epoxide	0	ug/L	.05
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	Toxaphene	0	ug/L	1
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	PCB 1016	0	ug/L	0.5
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	PCB 1221	0	ug/L	0.5
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	PCB 1232	0	ug/L	0.5
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	PCB 1242	0	ug/L	0.5
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	PCB 1248	0	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	PCB 1254	0	ug/L	0.5
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	PCB 1260	0	ug/L	0.5
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	Surr: Decachlorobiphenyl	101	%	11
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$PEST	Surr: Tetrachloro-m-xylene	95	%	48
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	Bromochloromethane	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	Chloromethane	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	Vinyl Chloride	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	Bromomethane	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	Chloroethane	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	Acrolein	0	ug/L	100.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	Acrylonitrile	0	ug/L	100.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	Methylene Chloride	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	Chloroform	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	Benzene	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	Trichloroethene	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	Bromodichloromethane	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	Dibromochloromethane	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	Bromoform	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	1,4-Dichlorobutane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	Tetrachloroethene	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	Toluene	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	Toluene-d8	91	ug/L	70
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	Chlorobenzene	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	Ethylbenzene	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	2-Propanone	0	ug/L	60
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$624	2-Butanone	0	ug/L	60
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	pyridine	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	2-Fluorophenol	36.6	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	aniline	0	ug/L	6.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Phenol-d6	20.3	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Phenol	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	2-Chlorophenol	0	ug/L	6.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	n-decane	0	ug/L	6.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	o-cresol	0	ug/L	6.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	acetophenone	0	ug/L	6.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Hexachloroethane	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Nitrobenzene-d5	66.0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	p-cresol	0	ug/L	6.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Nitrobenzene	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Isophorone	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Decafluorobiphenyl	69.4	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	2-Nitrophenol	0	ug/L	6.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Naphthalene	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	1-Fluoronaphthalene	69.0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	alpha terpineol	0	ug/L	6.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Acenaphthylene	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Acenaphthene	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	4-Nitrophenol	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Diethyl phthalate	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Fluorene	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	2,4,6-Tribromophenol	59.4	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Pentachlorophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	n-octadecane	0	ug/L	6.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Phenanthrene	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Anthracene	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	carbazole	0	ug/L	6.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Fluoranthene	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Benzidine	0	ug/L	6.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Pyrene	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Chrysene	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Perylene-D12	50.0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Hexachloroethane	0	ug/L	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	2,3-Dichloroaniline	0	ug/L	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Diethylphthalate	0	ug/L	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Benzo[ghi]perylene	0	ug/L	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	6,6-Dimethyl-cyclohex-2-en-1-ol T	2	ug/L	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	2-Hexene, 3,5,5-trimethyl- T	7	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	2-Hexene, 3,5,5-trimethyl- T2	2	ug/L	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	1-(1-Methyl-cyclopentyl)-ethanone T	2	ug/L	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	90	ug/L	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	2,4-Dimethyl-3-hexene(c,t) T	3	ug/L	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	2-Butenal, 3-methyl- T	9	ug/L	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	3-Heptene, 4-propyl- T	2	ug/L	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	2,4,4-Trimethyl-1-hexene T	3	ug/L	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Decane, 3,3,4-trimethyl- T	18	ug/L	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	1,3-Cyclobutanedione, 2,2,4,4-tetramet T	4	ug/L	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	Pentane, 2,3,4-trimethyl- T	3	ug/L	
AC08370	RF10	Little Miami Watershed	10	10/10/2012	09:45	\$625	TOTAL AMOUNT	767	ug/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	400	CFU/100mL	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	E-COLI	E.coli (Colilert)	866	MPN	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	TDS	Total Dissolved Solids	380	mg/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	SO4	Sulfate	85.0	mg/L	25.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	CL	Chloride	79.3	mg/L	1.00
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	TSS	Tot. Suspended Solids	16	mg/L	2
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	HARD	Hardness as CaCO3	318	mg/l	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	COD	COD	5	mg/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	612	uS/cm	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	10.35	Deg C	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	PH_FLD	pH (Field)	8.28	S.U.	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	12.18	mg/l	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	850	uS/cm	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$ICP	Aluminum	0.000	mg/L	0.348
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$ICP	Antimony	0.000	mg/L	0.006
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$ICP	Arsenic	0.000	mg/L	0.012
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$ICP	Barium	0.031	mg/L	0.003
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$ICP	Beryllium	0.000	mg/L	0.009
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$ICP	Cadmium	0.000	mg/L	0.012
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$ICP	Calcium	98.493	mg/L	0.066



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$ICP	Chromium	0.000	mg/L	0.006
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$ICP	Cobalt	0.000	mg/L	0.006
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$ICP	Copper	0.009	mg/L	0.006
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$ICP	Iron	0.248	mg/L	0.018
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$ICP	Lead	0.000	mg/L	0.006
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$ICP	Magnesium	18.475	mg/L	0.021
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$ICP	Manganese	0.018	mg/L	0.009
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$ICP	Nickel	0.000	mg/L	0.003
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$ICP	Selenium	0.025	mg/L	0.009
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$ICP	Silver	0.000	mg/L	0.003
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$ICP	Strontium	0.393	mg/L	0.009
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$ICP	Thallium	0.012	mg/L	0.012
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$ICP	Tin	0.000	mg/L	0.006
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$ICP	Vanadium	0.000	mg/L	0.018
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$ICP	Zinc	0.006	mg/L	0.006
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	PB_FU	Lead by Furnace	0.53	ug/L	1.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	AS_FU	Arsenic by Furnace	1.28	ug/L	1.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	CU_FU	Copper by Furnace	3.5	ug/L	1
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	TKN	Total Kjeldahl Nitrogen	0.5784	mg/L	0.5
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	NO2	Nitrite as N	0.0024	mg/l	0.005
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	Aldrin	0	ug/L	.02
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	Alpha-BHC	0	ug/L	.02
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	Beta-BHC	0	ug/L	.02
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	Delta-BHC	0	ug/L	.02
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	Gamma-BHC	0	ug/L	.02
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	Chlordane	0	ug/L	0.1
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	4,4-DDD	0	ug/L	.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	4,4-DDT	0	ug/L	.03
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	4,4-DDE	0	ug/L	.02
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	Dieldrin	0	ug/L	.02
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	Endosulfan I	0	ug/L	.05
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	Endosulfan II	0	ug/L	.02
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	Endosulfan sulfate	0	ug/L	.05
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	Endrin	0	ug/L	.02
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	Endrin aldehyde	0	ug/L	.02
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	Heptachlor	0	ug/L	.02
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	Heptachlor epoxide	0	ug/L	.05
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	Toxaphene	0	ug/L	1
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	PCB 1016	0	ug/L	0.5
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	PCB 1221	0	ug/L	0.5
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	PCB 1232	0	ug/L	0.5
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	PCB 1242	0	ug/L	0.5
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	PCB 1248	0	ug/L	0.5
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	PCB 1254	0	ug/L	0.5
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	PCB 1260	0	ug/L	0.5
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	Surr: Decachlorobiphenyl	80	%	11
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$PEST	Surr: Tetrachloro-m-xylene	79	%	48
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Bromochloromethane	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Chloromethane	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Bromomethane	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Chloroethane	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Acrolein	0	ug/L	100.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Acrylonitrile	0	ug/L	100.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Methylene Chloride	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Chloroform	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Benzene	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Trichloroethene	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Bromodichloromethane	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Dibromochloromethane	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Bromoform	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Tetrachloroethene	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Toluene	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Toluene-d8	90	ug/L	70
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Chlorobenzene	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Ethylbenzene	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	2-Propanone	0	ug/L	60
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	2-Butanone	0	ug/L	60
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	Dibromofluoromethane(S)	105	ug/L	83
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$624	4-Bromofluorobenzene	96	ug/L	72
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	pyridine	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	n-nitrosodimethylamine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		2-Fluorophenol	28.4	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		aniline	0	ug/L	6.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Phenol-d6	18.1	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Phenol	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		n-decane	0	ug/L	6.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		o-cresol	0	ug/L	6.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		acetophenone	0	ug/L	6.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Hexachloroethane	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Nitrobenzene-d5	67.1	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		p-cresol	0	ug/L	6.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Nitrobenzene	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Isophorone	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Decafluorobiphenyl	66.4	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Naphthalene	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		1-Fluoronaphthalene	71.6	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		alpha terpineol	0	ug/L	6.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		2-Chloronaphthalene	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	Acenaphthylene	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	Acenaphthene	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	4-Nitrophenol	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	Diethyl phthalate	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	Fluorene	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	2,4,6-Tribromophenol	58.3	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	Pentachlorophenol	0	ug/L	6.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	n-octadecane	0	ug/L	6.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	Phenanthrene	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	Anthracene	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	carbazole	0	ug/L	6.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	Fluoranthene	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	Benzidine	0	ug/L	6.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	Pyrene	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	Chrysene	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625	Di-n-octyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Hexachloroethane	0	ug/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Diethylphthalate	0	ug/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		2-Hexene, 3,5,5-trimethyl- T	3	ug/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		2-Hexene, 2,5,5-trimethyl- T	8	ug/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		2-Hexene, 3,5,5-trimethyl- T2	3	ug/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		1-Silacyclo-3-pentene T	2	ug/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	21	ug/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		3-Ethyl-4-methyl-2-pentene T	3	ug/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		2-Butenal, 3-methyl- T	8	ug/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Cyclopentanone, 2-(1-methylpropyl)- T	2	ug/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Pentane, 2,3,4-trimethyl- T	3	ug/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Pentane, 2,3,4-trimethyl- T2	18	ug/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		1,3-Cyclobutanedione, 2,2,4,4-tetramet T	4	ug/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		Pentane, 2,3,4-trimethyl- T3	3	ug/L	
AC08371	LM90	Little Miami Watershed	90	10/10/2012	10:30	\$625		TOTAL AMOUNT	688	ug/L	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45		MF_CF	Fecal Coliform, Membrane Filter	107	CFU/100mL	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45		E-COLI	E.coli (Colilert)	112	MPN	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45		TDS	Total Dissolved Solids	320	mg/L	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45		BOD	Biochemical Oxygen Demand	2	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	SO4	Sulfate	38.8	mg/L	12.5
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	CL	Chloride	65.3	mg/L	1.00
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	TSS	Tot. Suspended Solids	6	mg/L	2
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	HARD	Hardness as CaCO3	252	mg/l	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	COD	COD	14	mg/L	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	462	uS/cm	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	TEMP_FLD	Temperature (Field) Celsius	10.31	Deg C	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	PH_FLD	pH (Field)	7.71	S.U.	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	DO_FLD	Dissolved Oxygen (field) mg/L	7.42	mg/l	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	642	uS/cm	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$ICP	Aluminum	0.000	mg/L	0.348
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$ICP	Antimony	0.000	mg/L	0.006
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$ICP	Arsenic	0.000	mg/L	0.012
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$ICP	Barium	0.031	mg/L	0.003
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$ICP	Beryllium	0.000	mg/L	0.009
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$ICP	Cadmium	0.000	mg/L	0.012
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$ICP	Calcium	80.191	mg/L	0.066
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$ICP	Chromium	0.000	mg/L	0.006
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$ICP	Cobalt	0.000	mg/L	0.006
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$ICP	Copper	0.009	mg/L	0.006
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$ICP	Iron	0.702	mg/L	0.018
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$ICP	Lead	0.000	mg/L	0.006
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$ICP	Magnesium	14.130	mg/L	0.021
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$ICP	Manganese	0.125	mg/L	0.009
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$ICP	Nickel	0.000	mg/L	0.003
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$ICP	Selenium	0.026	mg/L	0.009
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$ICP	Silver	0.000	mg/L	0.003
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$ICP	Strontium	0.268	mg/L	0.009
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$ICP	Thallium	0.044	mg/L	0.012
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$ICP	Tin	0.000	mg/L	0.006
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$ICP	Vanadium	0.000	mg/L	0.018
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$ICP	Zinc	0.006	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	PB_FU	Lead by Furnace	1.58	ug/L	1.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	AS_FU	Arsenic by Furnace	1.44	ug/L	1.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	CU_FU	Copper by Furnace	3.7	ug/L	1
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	NH3	Ammonia as N	0	mg/L	0.5
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	NO2	Nitrite as N	0.0038	mg/l	0.005
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	Aldrin	0	ug/L	.02
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	Alpha-BHC	0	ug/L	.02
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	Beta-BHC	0	ug/L	.02
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	Delta-BHC	0	ug/L	.02
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	Gamma-BHC	0	ug/L	.02
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	Chlordane	0	ug/L	0.1
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	4,4-DDD	0	ug/L	.02
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	4,4-DDT	0	ug/L	.03
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	4,4-DDE	0	ug/L	.02
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	Dieldrin	0	ug/L	.02
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	Endosulfan I	0	ug/L	.05
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	Endosulfan II	0	ug/L	.02
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	Endosulfan sulfate	0	ug/L	.05
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	Endrin	0	ug/L	.02
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	Endrin aldehyde	0	ug/L	.02
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	Heptachlor	0	ug/L	.02
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	Heptachlor epoxide	0	ug/L	.05
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	Toxaphene	0	ug/L	1
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	PCB 1016	0	ug/L	0.5
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	PCB 1221	0	ug/L	0.5
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	PCB 1232	0	ug/L	0.5
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	PCB 1242	0	ug/L	0.5



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	PCB 1248	0	ug/L	0.5
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	PCB 1254	0	ug/L	0.5
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	PCB 1260	0	ug/L	0.5
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	Surr: Decachlorobiphenyl	89	%	11
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$PEST	Surr: Tetrachloro-m-xylene	89	%	48
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Bromochloromethane	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Chloromethane	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Vinyl Chloride	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Bromomethane	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Chloroethane	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Acrolein	0	ug/L	100.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Acrylonitrile	0	ug/L	100.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Methylene Chloride	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Chloroform	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Benzene	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Trichloroethene	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Bromodichloromethane	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Dibromochloromethane	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Bromoform	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Tetrachloroethene	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Toluene	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Toluene-d8	90	ug/L	81
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Chlorobenzene	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Ethylbenzene	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	2-Propanone	0	ug/L	60
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	2-Butanone	0	ug/L	60
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	Dibromofluoromethane (S)	106	ug/L	83
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$624	4-bromofluorobenzene(S)	96	ug/L	72
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625	pyridine	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625	2-Fluorophenol	32.0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625	aniline	0	ug/L	6.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625	Phenol-d6	19.1	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625	Phenol	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625	2-Chlorophenol	0	ug/L	6.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625	n-decane	0	ug/L	6.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625	o-cresol	0	ug/L	6.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625	acetophenone	0	ug/L	6.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625	Hexachloroethane	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625	Nitrobenzene-d5	57.6	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625	p-cresol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Nitrobenzene	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Isophorone	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Decafluorobiphenyl	52.0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		2-Nitrophenol	0	ug/L	6.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Naphthalene	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		1-Fluoronaphthalene	55.5	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		alpha terpineol	0	ug/L	6.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Acenaphthylene	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Acenaphthene	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		4-Nitrophenol	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Diethyl phthalate	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Fluorene	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		2,4,6-Tribromophenol	55.9	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Pentachlorophenol	0	ug/L	6.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		n-octadecane	0	ug/L	6.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Phenanthrene	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Anthracene	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		carbazole	0	ug/L	6.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Fluoranthene	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Benzidine	0	ug/L	6.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Pyrene	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Chrysene	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Perylene-D12	50.0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Hexachloroethane	0	ug/L	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		2,3-Dichloroaniline	0	ug/L	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Diethylphthalate	0	ug/L	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Dibenz[a,h]anthracene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Benzo[ghi]perylene	0	ug/L	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		6,6-Dimethyl-cyclohex-2-en-1-ol T	4	ug/L	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		2-Hexene, 2,5,5-trimethyl- T	17	ug/L	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		2-Hexene, 3,5,5-trimethyl- T	5	ug/L	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		1-Silacyclo-3-pentene T	3	ug/L	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	22	ug/L	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		3-Ethyl-3-hexene T	2	ug/L	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	6	ug/L	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		4-Hepten-3-one, 2,6-dimethyl- T	2	ug/L	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Pentane, 2,3,4-trimethyl- T	4	ug/L	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Pentane, 2,3,4-trimethyl- T2	21	ug/L	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Octane, 3-methyl-6-methylene- T	3	ug/L	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		Pentane, 2,3,4-trimethyl- T3	4	ug/L	
AC08372	LM88	Little Miami Watershed	88	10/10/2012	10:45	\$625		TOTAL AMOUNT	666	ug/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00		MF_CF	Fecal Coliform, Membrane Filter	900	CFU/100mL	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00		E-COLI	E.coli (Colilert)	816	MPN	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00		TDS	Total Dissolved Solids	210	mg/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00		SO4	Sulfate	34.5	mg/L	12.5
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00		CL	Chloride	41.9	mg/L	1.00
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00		TSS	Tot. Suspended Solids	6	mg/L	2
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00		SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00		HARD	Hardness as CaCO3	196	mg/l	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00		COD	COD	9	mg/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	345	uS/cm	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00		TEMP_FLD	Temperature (Field) Celsius	10.65	Deg C	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00		PH_FLD	pH (Field)	7.66	S.U.	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00		DO_FLD	Dissolved Oxygen (field) mg/L	7.33	mg/l	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00		CONDUCTIVITY	Specific Conductivity (uS/cm)	476	uS/cm	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00		\$ICP	Aluminum	0.000	mg/L	0.348
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00		\$ICP	Antimony	0.000	mg/L	0.006
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00		\$ICP	Arsenic	0.000	mg/L	0.012
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00		\$ICP	Barium	0.024	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$ICP	Beryllium	0.000	mg/L	0.009
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$ICP	Cadmium	0.000	mg/L	0.012
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$ICP	Calcium	58.804	mg/L	0.066
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$ICP	Chromium	0.000	mg/L	0.006
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$ICP	Cobalt	0.000	mg/L	0.006
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$ICP	Copper	0.009	mg/L	0.006
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$ICP	Iron	0.301	mg/L	0.018
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$ICP	Lead	0.000	mg/L	0.006
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$ICP	Magnesium	11.064	mg/L	0.021
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$ICP	Manganese	0.057	mg/L	0.009
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$ICP	Nickel	0.000	mg/L	0.003
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$ICP	Selenium	0.024	mg/L	0.009
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$ICP	Silver	0.000	mg/L	0.003
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$ICP	Strontium	0.195	mg/L	0.009
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$ICP	Thallium	0.024	mg/L	0.012
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$ICP	Tin	0.000	mg/L	0.006
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$ICP	Vanadium	0.000	mg/L	0.018
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$ICP	Zinc	0.000	mg/L	0.006
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	PB_FU	Lead by Furnace	0.53	ug/L	1.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	AS_FU	Arsenic by Furnace	1.40	ug/L	1.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	CU_FU	Copper by Furnace	4.1	ug/L	1
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	TKN	Total Kjeldahl Nitrogen	0.8364	mg/L	0.5
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	NO2	Nitrite as N	0.0045	mg/l	0.005
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	Aldrin	0	ug/L	.02
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	Alpha-BHC	0	ug/L	.02
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	Beta-BHC	0	ug/L	.02
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	Delta-BHC	0	ug/L	.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	Gamma-BHC	0	ug/L	.02
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	Chlordane	0	ug/L	0.1
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	4,4-DDD	0	ug/L	.02
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	4,4-DDT	0	ug/L	.03
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	4,4-DDE	0	ug/L	.02
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	Dieldrin	0	ug/L	.02
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	Endosulfan I	0	ug/L	.05
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	Endosulfan II	0	ug/L	.02
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	Endosulfan sulfate	0	ug/L	.05
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	Endrin	0	ug/L	.02
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	Endrin aldehyde	0	ug/L	.02
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	Heptachlor	0	ug/L	0.1
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	Heptachlor epoxide	0	ug/L	.02
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	Toxaphene	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	PCB 1016	0	ug/L	0.5
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	PCB 1221	0	ug/L	0.5
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	PCB 1232	0	ug/L	0.5
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	PCB 1242	0	ug/L	0.5
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	PCB 1248	0	ug/L	0.5
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	PCB 1254	0	ug/L	0.5
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	PCB 1260	0	ug/L	0.5
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	Surr: Decachlorobiphenyl	94	%	11
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$PEST	Surr: Tetrachloro-m-xylene	97	%	48
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624	Bromochloromethane	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624	Chloromethane	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624	Bromomethane	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624	Chloroethane	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624	Acrolein	0	ug/L	100.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624	Acrylonitrile	0	ug/L	100.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624	Methylene Chloride	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		Chloroform	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		Benzene	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		Trichloroethene	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		Bromodichloromethane	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		Bromoform	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		Toluene	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		Toluene-d8	92	ug/L	81
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		Chlorobenzene	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		Ethylbenzene	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		2-Propanone	0	ug/L	60
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		2-Butanone	0	ug/L	60
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		Dibromofluoromethane (S)	104	ug/L	83
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$624		4-Bromofluorobenzene (S)	97	ug/L	72



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		pyridine	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		2-Fluorophenol	22.2	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		aniline	0	ug/L	6.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Phenol-d6	15.8	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Phenol	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		2-Chlorophenol	0	ug/L	6.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		n-decane	0	ug/L	6.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		o-cresol	0	ug/L	6.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		acetophenone	0	ug/L	6.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Hexachloroethane	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Nitrobenzene-d5	52.5	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		p-cresol	0	ug/L	6.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Nitrobenzene	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Isophorone	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Decafluorobiphenyl	43.1	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		2-Nitrophenol	0	ug/L	6.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Naphthalene	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		1-Fluoronaphthalene	51.7	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		alpha terpineol	0	ug/L	6.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Acenaphthylene	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Acenaphthene	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		4-Nitrophenol	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Diethyl phthalate	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Fluorene	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		2,4,6-Tribromophenol	32.6	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Pentachlorophenol	0	ug/L	6.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		n-octadecane	0	ug/L	6.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Phenanthrene	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Anthracene	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		carbazole	0	ug/L	6.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Fluoranthene	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Benzidine	0	ug/L	6.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Pyrene	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625		Benzo(a)anthracene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	Chrysene	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	Perylene-D12	50.0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	Hexachloroethane	0	ug/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	2,3-Dichloroaniline	0	ug/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	Diethylphthalate	0	ug/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	Benzo[ghi]perylene	0	ug/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	9-Thiabicyclo[3.3.1]non-6-en-2-amine, T	4	ug/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	2-Hexene, 2,5,5-trimethyl- T	18	ug/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	2-Hexene, 3,5,5-trimethyl- T	5	ug/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	1-(1-Methyl-cyclopentyl)-ethanone T	4	ug/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	12	ug/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	Hexane, 3-methyl-4-methylene- T	2	ug/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	5	ug/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	3-Hexene, 3-ethyl-2,5-dimethyl- T	2	ug/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	2,4,4-Trimethyl-1-hexene T	3	ug/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	Pentane, 2,3,4-trimethyl- T	22	ug/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	Heptane, 3-ethyl-5-methylene- T	3	ug/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	Pentane, 2,3,4-trimethyl- T2	5	ug/L	
AC08373	LM89	Little Miami Watershed	89	10/10/2012	11:00	\$625	TOTAL AMOUNT	602	ug/L	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	MF_CF	Fecal Coliform, Membrane Filter	29	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	E-COLI	E.coli (Colilert)	33	MPN	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	TDS	Total Dissolved Solids	260	mg/L	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	SO4	Sulfate	32.5	mg/L	1.00
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	CL	Chloride	72.1	mg/L	1.00
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	TSS	Tot. Suspended Solids	8	mg/L	2
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	SSC	Suspended Sediment Concentration	10.3	mg/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	HARD	Hardness as CaCO3	260	mg/l	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	COD	COD	5	mg/L	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	521	uS/cm	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	TEMP_FLD	Temperature (Field) Celsius	13.59	Deg C	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	PH_FLD	pH (Field)	8.33	S.U.	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	DO_FLD	Dissolved Oxygen (field) mg/L	13.31	mg/l	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	666	uS/cm	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	NO3NO2	Nitrate + Nitrite	1.35	mg/L	0.5
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	NO2	Nitrite as N	0.0048	mg/l	0.005
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	NO3	Nitrate as N (calculated)	1.3452	mg/l	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	Aldrin	0	ug/L	.02
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	Alpha-BHC	0	ug/L	.02
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	Beta-BHC	0	ug/L	.02
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	Delta-BHC	0	ug/L	.02
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	Gamma-BHC	0	ug/L	.02
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	Chlordane	0	ug/L	0.1
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	4,4-DDD	0	ug/L	.02
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	4,4-DDT	0	ug/L	.03
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	4,4-DDE	0	ug/L	.02
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	Dieldrin	0	ug/L	.02
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	Endosulfan I	0	ug/L	.05
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	Endosulfan II	0	ug/L	.05

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	Endosulfan sulfate	0	ug/L	0.1
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	Endrin	0	ug/L	0.1
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	Endrin aldehyde	0	ug/L	0.1
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	Heptachlor	0	ug/L	0.1
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	Heptachlor epoxide	0	ug/L	0.1
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	Toxaphene	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	PCB 1016	0	ug/L	0.5
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	PCB 1221	0	ug/L	0.5
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	PCB 1232	0	ug/L	0.5
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	PCB 1242	0	ug/L	0.5
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	PCB 1248	0	ug/L	0.5
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	PCB 1254	0	ug/L	0.5
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	PCB 1260	0	ug/L	0.5
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	Surr: Decachlorobiphenyl	96	%	11
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$PEST	Surr: Tetrachloro-m-xylene	98	%	48
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Bromochloromethane	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Chloromethane	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Bromomethane	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Chloroethane	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Acrolein	0	ug/L	100.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Acrylonitrile	0	ug/L	100.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Methylene Chloride	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Chloroform	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Carbon Tetrachloride	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Benzene	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Trichloroethene	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Bromodichloromethane	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Dibromochloromethane	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Bromoform	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Tetrachloroethene	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Toluene	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Toluene-d8	90	ug/L	81
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Chlorobenzene	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Ethylbenzene	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	2-Propanone	0	ug/L	60
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	2-Butanone	0	ug/L	60
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	Dibromofluoromethane (S)	109	ug/L	83
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$624	4-Bromofluorobenzene (S)	96	ug/L	72
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625	pyridine	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625	2-Fluorophenol	45.2	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625	aniline	0	ug/L	6.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625	Phenol-d6	30.2	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625	Phenol	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		n-decane	0	ug/L	6.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		o-cresol	0	ug/L	6.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		acetophenone	0	ug/L	6.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Hexachloroethane	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Nitrobenzene-d5	81.1	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		p-cresol	0	ug/L	6.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Nitrobenzene	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Isophorone	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Decafluorobiphenyl	70.6	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Naphthalene	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		1-Fluoronaphthalene	82.8	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		alpha terpineol	0	ug/L	6.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Acenaphthylene	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Acenaphthene	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		2,4-Dinitrophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		4-Nitrophenol	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Diethyl phthalate	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Fluorene	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		2,4,6-Tribromophenol	78.7	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Pentachlorophenol	0	ug/L	6.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		n-octadecane	0	ug/L	6.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Phenanthrene	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Anthracene	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		carbazole	0	ug/L	6.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Fluoranthene	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Benzidine	0	ug/L	6.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Pyrene	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Chrysene	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Hexachloroethane	0	ug/L	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Diethylphthalate	0	ug/L	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		2,5-Cyclohexadien-1-one, 3,5-dihydroxy T	5	ug/L	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		2-Hexene, 2,5,5-trimethyl- T	22	ug/L	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		2-Hexene, 3,5,5-trimethyl- T	7	ug/L	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		1-Silacyclo-3-pentene T	4	ug/L	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	25	ug/L	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		2-Butenal, 3-methyl- T	7	ug/L	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Decane, 3,3,4-trimethyl- T	5	ug/L	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Decane, 3,3,4-trimethyl- T2	26	ug/L	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		1-Octene, 3-ethyl- T	4	ug/L	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		Pentane, 2,3,4-trimethyl- T	6	ug/L	
AC08374	LM15	Little Miami Watershed	15	10/10/2012	11:30	\$625		TOTAL AMOUNT	799	ug/L	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40		MF_CF	Fecal Coliform, Membrane Filter	64	CFU/100mL	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40		E-COLI	E.coli (Colilert)	86	MPN	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40		TDS	Total Dissolved Solids	460	mg/L	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40		SO4	Sulfate	42.0	mg/L	12.5
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40		CL	Chloride	79.8	mg/L	1.00
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40		TSS	Tot. Suspended Solids	20	mg/L	2
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40		SSC	Suspended Sediment Concentration	9.8	mg/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40		HARD	Hardness as CaCO3	258	mg/l	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40		COD	COD	40	mg/L	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	455	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	TEMP_FLD	Temperature (Field) Celsius	11.69	Deg C	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	DO_FLD	Dissolved Oxygen (field) mg/L	12.82	mg/l	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	610	uS/cm	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	NH3	Ammonia as N	0	mg/L	0.5
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	NO3NO2	Nitrate + Nitrite	1.72	mg/L	0.5
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	TKN	Total Kjeldahl Nitrogen	0.2327	mg/L	0.5
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	TKP	Total Kjeldahl Phosphorus	0.4236	mg/L	0.5
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	NO2	Nitrite as N	0.0086	mg/l	0.005
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	NO3	Nitrate as N (calculated)	1.7114	mg/l	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	Aldrin	AA	ug/L	0.02
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	Chlordane	AA	ug/L	0.1
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	Dieldrin	AA	ug/L	0.02
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	Endrin	AA	ug/L	0.02
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	Heptachlor	AA	ug/L	0.02
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	Toxaphene	AA	ug/L	1.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	PCB 1016	AA	ug/L	0.5
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	PCB 1221	AA	ug/L	0.5
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	PCB 1232	AA	ug/L	0.5
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	PCB 1242	AA	ug/L	0.5
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	PCB 1248	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	PCB 1254	AA	ug/L	0.5
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	PCB 1260	AA	ug/L	0.5
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	Surr: Decachlorobiphenyl	0.941	%	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$PEST	Surr: Tetrachloro-m-xylene	0.931	%	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Bromochloromethane	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Chloromethane	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Vinyl Chloride	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Bromomethane	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Chloroethane	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Acrolein	0	ug/L	100.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Acrylonitrile	0	ug/L	100.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Methylene Chloride	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Chloroform	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Benzene	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Trichloroethene	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Bromodichloromethane	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Dibromochloromethane	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Bromoform	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	1,4-Dichlorobutane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Tetrachloroethene	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Toluene	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Toluene-d8	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Chlorobenzene	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Ethylbenzene	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	2-Propanone	0	ug/L	60
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	2-Butanone	0	ug/L	60
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	Dibromofluoromethane (S)	99	ug/L	83
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$624	4-Bromofluorobenzene (S)	97	ug/L	72
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	pyridine	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	2-Fluorophenol	25.4	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	aniline	0	ug/L	6.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Phenol-d6	17.2	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Phenol	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	2-Chlorophenol	0	ug/L	6.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	n-decane	0	ug/L	6.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	o-cresol	0	ug/L	6.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	acetophenone	0	ug/L	6.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Hexachloroethane	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Nitrobenzene-d5	55.2	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	p-cresol	0	ug/L	6.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Nitrobenzene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Isophorone	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Decafluorobiphenyl	42.2	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	2-Nitrophenol	0	ug/L	6.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Naphthalene	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	1-Fluoronaphthalene	54.1	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	alpha terpineol	0	ug/L	6.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Acenaphthylene	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Acenaphthene	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	4-Nitrophenol	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Diethyl phthalate	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Fluorene	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	2,4,6-Tribromophenol	62.2	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Pentachlorophenol	0	ug/L	6.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	n-octadecane	0	ug/L	6.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Phenanthrene	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Anthracene	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	carbazole	0	ug/L	6.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Fluoranthene	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Benzidine	0	ug/L	6.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Pyrene	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Chrysene	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Perylene-D12	50.0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Hexachloroethane	0	ug/L	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	2,3-Dichloroaniline	0	ug/L	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Diethylphthalate	0	ug/L	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Benzo[ghi]perylene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	2-Propenoic acid, 3-(2-furanyl)- T	3	ug/L	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Hexane, 1-(hexyloxy)-4-methyl- T	3	ug/L	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	2-Hexene, 2,5,5-trimethyl- T	15	ug/L	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	2-Hexene, 3,5,5-trimethyl- T	5	ug/L	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	1-(1-Methyl-cyclopentyl)-ethanone T	3	ug/L	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	10	ug/L	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	5	ug/L	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Undecane, 3,3-dimethyl- T	3	ug/L	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Pentane, 2,3,4-trimethyl- T	18	ug/L	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	1-Hexene, 4,5-dimethyl- T	3	ug/L	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	Decane, 3,3,4-trimethyl- T	4	ug/L	
AC08434	LM16	Little Miami Watershed	16 (3261-02)	10/11/2012	08:40	\$625	TOTAL AMOUNT	629	ug/L	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	MF_CF	Fecal Coliform, Membrane Filter	230	CFU/100mL	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	E-COLI	E.coli (Colilert)	185	MPN	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	TDS	Total Dissolved Solids	590	mg/L	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	SO4	Sulfate	74.8	mg/L	12.5
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	CL	Chloride	111	mg/L	2.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	TSS	Tot. Suspended Solids	14	mg/L	2
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	HARD	Hardness as CaCO3	338	mg/l	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	COD	COD	41	mg/L	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	654	uS/cm	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	TEMP_FLD	Temperature (Field) Celsius	8.13	Deg C	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	PH_FLD	pH (Field)	7.25	S.U.	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	DO_FLD	Dissolved Oxygen (field) mg/L	8.42	mg/l	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	962	uS/cm	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	NH3	Ammonia as N	0	mg/L	0.5
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	TKN	Total Kjeldahl Nitrogen	0.2704	mg/L	0.5
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	TKP	Total Kjeldahl Phosphorus	0.3489	mg/L	0.5
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	NO2	Nitrite as N	0.0022	mg/l	0.005
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	NO3	Nitrate as N (calculated)	AW	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	Aldrin	AA	ug/L	0.02
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	Chlordane	AA	ug/L	0.1
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	Dieldrin	AA	ug/L	0.02
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	Endrin	AA	ug/L	0.02
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	Heptachlor	AA	ug/L	0.02
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	Toxaphene	AA	ug/L	1.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	PCB 1016	AA	ug/L	0.5
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	PCB 1221	AA	ug/L	0.5
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	PCB 1232	AA	ug/L	0.5
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	PCB 1242	AA	ug/L	0.5
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	PCB 1248	AA	ug/L	0.5
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	PCB 1254	AA	ug/L	0.5
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	PCB 1260	AA	ug/L	0.5
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	Surr: Decachlorobiphenyl	0.890	%	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$PEST	Surr: Tetrachloro-m-xylene	1.04	%	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Bromochloromethane	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Chloromethane	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Vinyl Chloride	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Bromomethane	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Chloroethane	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Acrolein	0	ug/L	100.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Acrylonitrile	0	ug/L	100.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Methylene Chloride	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Chloroform	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Benzene	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Trichloroethene	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Bromodichloromethane	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Dibromochloromethane	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Bromoform	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Tetrachloroethene	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Toluene	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Toluene-d8	90	ug/L	81
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Chlorobenzene	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Ethylbenzene	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	1,4-Dichlorobenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	2-Propanone	0	ug/L	60
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	2-Butanone	0	ug/L	60
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	Dibromofluouomethane (S)	103	ug/L	83
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$624	4-Bromofluoromethane (S)	95	ug/L	72
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	pyridine	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	2-Fluorophenol	29.9	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	aniline	0	ug/L	6.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Phenol-d6	18.8	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Phenol	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	2-Chlorophenol	0	ug/L	6.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	n-decane	0	ug/L	6.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	o-cresol	0	ug/L	6.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	acetophenone	0	ug/L	6.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Hexachloroethane	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Nitrobenzene-d5	51.6	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	p-cresol	0	ug/L	6.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Nitrobenzene	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Isophorone	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Decafluorobiphenyl	35.5	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	2-Nitrophenol	0	ug/L	6.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Naphthalene	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	1-Fluoronaphthalene	43.0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	alpha terpineol	0	ug/L	6.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Acenaphthylene	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Acenaphthene	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	4-Nitrophenol	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Diethyl phthalate	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Fluorene	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	2,4,6-Tribromophenol	65.1	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Pentachlorophenol	0	ug/L	6.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	n-octadecane	0	ug/L	6.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Phenanthrene	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Anthracene	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	carbazole	0	ug/L	6.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Fluoranthene	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Chrysene-d12	50.0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Benzidine	0	ug/L	6.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Pyrene	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Chrysene	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Perylene-D12	50.0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Hexachloroethane	0	ug/L	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	2,3-Dichloroaniline	0	ug/L	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Diethylphthalate	0	ug/L	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Benzo[ghi]perylene	0	ug/L	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	2,5-Cyclohexadien-1-one, 3,5-dihydroxy T	3	ug/L	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	2-Hexene, 2,5,5-trimethyl- T	13	ug/L	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	2-Hexene, 2,5,5-trimethyl- T2	4	ug/L	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	1-Silacyclo-3-pentene T	3	ug/L	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	4	ug/L	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	1-Hexene, 3,4,5-trimethyl- T	2	ug/L	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	1-Butanol, 3-methyl-, carbonate (2:1) T	16	ug/L	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Octane, 3-methyl-6-methylene- T	2	ug/L	
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	Pentane, 2,3,4-trimethyl- T	3	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08435	LM102	Little Miami Watershed	102	10/11/2012	09:15	\$625	TOTAL AMOUNT	594	ug/L	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	MF_CF	Fecal Coliform, Membrane Filter	121	CFU/100mL	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	E-COLI	E.coli (Colilert)	179	MPN	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	TDS	Total Dissolved Solids	440	mg/L	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	SO4	Sulfate	52.2	mg/L	12.5
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	CL	Chloride	78.3	mg/L	1.00
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	TSS	Tot. Suspended Solids	10	mg/L	2
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	HARD	Hardness as CaCO3	222	mg/l	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	COD	COD	43	mg/L	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	432	uS/cm	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	TEMP_FLD	Temperature (Field) Celsius	7.98	Deg C	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	PH_FLD	pH (Field)	8.01	S.U.	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	DO_FLD	Dissolved Oxygen (field) mg/L	13.72	mg/l	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	641	uS/cm	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	NH3	Ammonia as N	0	mg/L	0.5
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	TKN	Total Kjeldahl Nitrogen	0.1763	mg/L	0.5
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	TKP	Total Kjeldahl Phosphorus	0.3078	mg/L	0.5
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	NO2	Nitrite as N	0.0012	mg/l	0.005
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	Aldrin	AA	ug/L	0.02
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	Chlordane	AA	ug/L	0.1
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	Dieldrin	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	Endrin	AA	ug/L	0.02
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	Heptachlor	AA	ug/L	0.02
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	Toxaphene	AA	ug/L	1.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	PCB 1016	AA	ug/L	0.5
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	PCB 1221	AA	ug/L	0.5
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	PCB 1232	AA	ug/L	0.5
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	PCB 1242	AA	ug/L	0.5
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	PCB 1248	AA	ug/L	0.5
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	PCB 1254	AA	ug/L	0.5
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	PCB 1260	AA	ug/L	0.5
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	Surr: Decachlorobiphenyl	1.04	%	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$PEST	Surr: Tetrachloro-m-xylene	0.984	%	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	Bromochloromethane	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	Chloromethane	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	Vinyl Chloride	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	Bromomethane	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	Chloroethane	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	Acrolein	0	ug/L	100.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	Acrylonitrile	0	ug/L	100.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	Methylene Chloride	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	Chloroform	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	Benzene	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	Trichloroethene	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	Bromodichloromethane	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	Dibromochloromethane	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	Bromoform	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	Tetrachloroethene	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	Toluene	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	Toluene-d8	90	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	Chlorobenzene	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	Ethylbenzene	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	2-Propanone	0	ug/L	60
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$624	2-Butanone	0	ug/L	60
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	pyridine	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	2-Fluorophenol	23.7	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	aniline	0	ug/L	6.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	Phenol-d6	15.9	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	Phenol	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	2-Chlorophenol	0	ug/L	6.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	n-decane	0	ug/L	6.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	o-cresol	0	ug/L	6.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	acetophenone	0	ug/L	6.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	Hexachloroethane	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	Nitrobenzene-d5	52.2	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	p-cresol	0	ug/L	6.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	Nitrobenzene	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	Isophorone	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	Decafluorobiphenyl	40.7	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	2-Nitrophenol	0	ug/L	6.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	Naphthalene	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	1-Fluoronaphthalene	48.3	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	alpha terpineol	0	ug/L	6.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	Acenaphthylene	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	Acenaphthene	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625	2,4-Dinitrophenol	0	ug/L	6.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		4-Nitrophenol	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Diethyl phthalate	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Fluorene	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		2,4,6-Tribromophenol	46.5	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Pentachlorophenol	0	ug/L	6.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		n-octadecane	0	ug/L	6.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Phenanthrene	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Anthracene	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		carbazole	0	ug/L	6.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Fluoranthene	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Benzidine	0	ug/L	6.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Pyrene	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Chrysene	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Perylene-D12	50.0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Hexachloroethane	0	ug/L	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		2,3-Dichloroaniline	0	ug/L	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Diethylphthalate	0	ug/L	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Benzo[ghi]perylene	0	ug/L	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		6,6-Dimethyl-cyclohex-2-en-1-ol T	3	ug/L	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		2-Hexene, 3,5,5-trimethyl- T	14	ug/L	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		2-Hexene, 3,5,5-trimethyl- T2	4	ug/L	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		1-(1-Methyl-cyclopentyl)-ethanone T	3	ug/L	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	2	ug/L	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	4	ug/L	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Undecane, 3,3-dimethyl- T	3	ug/L	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Decane, 3,3,4-trimethyl- T	16	ug/L	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		1-Octene, 3-ethyl- T	3	ug/L	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		Di-iso-amyl oxalate T	4	ug/L	
AC08436	LM100	Little Miami Watershed	100	10/11/2012	10:15	\$625		TOTAL AMOUNT	584	ug/L	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45		MF_CF	Fecal Coliform, Membrane Filter	193	CFU/100mL	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45		E-COLI	E.coli (Colilert)	214	MPN	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45		TDS	Total Dissolved Solids	490	mg/L	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45		SO4	Sulfate	58.5	mg/L	12.5
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45		CL	Chloride	83.6	mg/L	1.00
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45		TSS	Tot. Suspended Solids	14	mg/L	2
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45		SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45		HARD	Hardness as CaCO3	244	mg/l	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45		COD	COD	67	mg/L	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	505	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	TEMP_FLD	Temperature (Field) Celsius	7.46	Deg C	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	PH_FLD	pH (Field)	7.72	S.U.	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	DO_FLD	Dissolved Oxygen (field) mg/L	14.45	mg/l	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	760	uS/cm	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	NH3	Ammonia as N	0	mg/L	0.5
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	TKN	Total Kjeldahl Nitrogen	0.3533	mg/L	0.5
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	TKP	Total Kjeldahl Phosphorus	0.6628	mg/L	0.5
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	NO2	Nitrite as N	0	mg/l	0.005
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	CHLOROPHYLL	Chlorophyll	4.27	mg/m3	1.00
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	Aldrin	AA	ug/L	0.02
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	Chlordane	AA	ug/L	0.1
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	Dieldrin	AA	ug/L	0.02
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	Endrin	AA	ug/L	0.02
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	Heptachlor	AA	ug/L	0.02
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	Toxaphene	AA	ug/L	1.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	PCB 1016	AA	ug/L	0.5
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	PCB 1221	AA	ug/L	0.5
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	PCB 1232	AA	ug/L	0.5
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	PCB 1242	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	PCB 1248	AA	ug/L	0.5
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	PCB 1254	AA	ug/L	0.5
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	PCB 1260	AA	ug/L	0.5
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	Surr: Decachlorobiphenyl	1.06	%	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$PEST	Surr: Tetrachloro-m-xylene	0.967	%	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Bromochloromethane	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Chloromethane	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Vinyl Chloride	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Bromomethane	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Chloroethane	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Acrolein	0	ug/L	50
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Acrylonitrile	0	ug/L	100.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Methylene Chloride	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Chloroform	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Benzene	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Trichloroethene	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	2-Chloroethylvinylether	0	ug/L	50
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Bromodichloromethane	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Dibromochloromethane	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Bromoform	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Tetrachloroethene	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Toluene	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Toluene-d8	91	ug/L	81
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Chlorobenzene	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Ethylbenzene	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Bromofluorobenzene	99	ug/L	72
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	2-Propanone	0	ug/L	60
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	2-Butanone	0	ug/L	60
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$624	Dibromofluoromethane	103	ug/L	83
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	pyridine	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	2-Fluorophenol	35.1	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	aniline	0	ug/L	6.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Phenol-d6	22.6	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Phenol	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	2-Chlorophenol	0	ug/L	6.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	n-decane	0	ug/L	6.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	o-cresol	0	ug/L	6.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	acetophenone	0	ug/L	6.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Hexachloroethane	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Nitrobenzene-d5	69.0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	p-cresol	0	ug/L	6.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Nitrobenzene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Isophorone	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Decafluorobiphenyl	37.8	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	2-Nitrophenol	0	ug/L	6.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Naphthalene	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	1-Fluoronaphthalene	53.1	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	alpha terpineol	0	ug/L	6.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Acenaphthylene	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Acenaphthene	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	4-Nitrophenol	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Diethyl phthalate	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Fluorene	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	2,4,6-Tribromophenol	72.4	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Pentachlorophenol	0	ug/L	6.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	n-octadecane	0	ug/L	6.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Phenanthrene	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Anthracene	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	carbazole	0	ug/L	6.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Fluoranthene	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Benzidine	0	ug/L	6.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Pyrene	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Chrysene	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Perylene-D12	50.0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Hexachloroethane	0	ug/L	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	2,3-Dichloroaniline	0	ug/L	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Diethylphthalate	0	ug/L	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Benzo[ghi]perylene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	9-Thiabicyclo[3.3.1]non-6-en-2-amine, T	4	ug/L	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	2-Hexene, 3,5,5-trimethyl- T	19	ug/L	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	2-Hexene, 3,5,5-trimethyl- T2	5	ug/L	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	1-Silacyclo-3-pentene T	4	ug/L	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	2-Butenal, 3-methyl- T	6	ug/L	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	1-Methyl-4-(1-methylethyl)-cyclohexane T	2	ug/L	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Pentane, 2,3,4-trimethyl- T	4	ug/L	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	1-Butanol, 3-methyl-, carbonate (2:1) T	22	ug/L	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Octane, 3-methyl-6-methylene- T	3	ug/L	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	Pentane, 2,3,4-trimethyl- T2	5	ug/L	
AC08437	LM101	Little Miami Watershed	101	10/11/2012	09:45	\$625	TOTAL AMOUNT	664	ug/L	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	136	CFU/100mL	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	E-COLI	E.coli (Colilert)	179	MPN	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	TDS	Total Dissolved Solids	520	mg/L	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	SO4	Sulfate	66.5	mg/L	12.5
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	CL	Chloride	94.9	mg/L	1.00
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	TSS	Tot. Suspended Solids	16	mg/L	2
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	HARD	Hardness as CaCO3	300	mg/l	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	COD	COD	37	mg/L	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	542	uS/cm	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	9.95	Deg C	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	PH_FLD	pH (Field)	8.45	S.U.	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	17.41	mg/l	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	760	uS/cm	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$ICP	Aluminum	0.000	mg/L	0.348
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$ICP	Antimony	0.000	mg/L	0.006
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$ICP	Arsenic	0.000	mg/L	0.012
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$ICP	Barium	0.037	mg/L	0.003
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$ICP	Beryllium	0.000	mg/L	0.009
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$ICP	Cadmium	0.000	mg/L	0.012
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$ICP	Calcium	100.274	mg/L	0.066



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$ICP	Chromium	0.000	mg/L	0.006
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$ICP	Cobalt	0.000	mg/L	0.006
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$ICP	Copper	0.006	mg/L	0.006
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$ICP	Iron	0.115	mg/L	0.018
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$ICP	Lead	0.000	mg/L	0.006
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$ICP	Magnesium	18.785	mg/L	0.021
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$ICP	Manganese	0.010	mg/L	0.009
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$ICP	Nickel	0.000	mg/L	0.003
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$ICP	Selenium	0.027	mg/L	0.009
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$ICP	Silver	0.000	mg/L	0.003
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$ICP	Strontium	0.318	mg/L	0.009
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$ICP	Thallium	0.000	mg/L	0.012
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$ICP	Tin	0.000	mg/L	0.006
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$ICP	Vanadium	0.000	mg/L	0.018
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$ICP	Zinc	0.000	mg/L	0.006
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	PB_FU	Lead by Furnace	0.11	ug/L	0.5
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	AS_FU	Arsenic by Furnace	0.69	ug/L	1.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	CU_FU	Copper by Furnace	2.2	ug/L	1
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	TKN	Total Kjeldahl Nitrogen	0.5143	mg/L	0.5
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	TKP	Total Kjeldahl Phosphorus	0.6160	mg/L	0.5
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	NO2	Nitrite as N	0.0022	mg/l	0.005
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	Aldrin	AA	ug/L	0.02
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	Chlordane	AA	ug/L	0.1
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	4,4-DDD	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	Endrin	AA	ug/L	0.02
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	Surr: Decachlorobiphenyl	1.03	%	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$PEST	Surr: Tetrachloro-m-xylene	0.984	%	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624	Bromochloromethane	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624	Chloromethane	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624	Bromomethane	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624	Chloroethane	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624	Acrolein	0	ug/L	100.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624	Acrylonitrile	0	ug/L	100.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624	Methylene Chloride	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624	Chloroform	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		Benzene	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		Trichloroethene	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		Bromoform	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		Toluene	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		Toluene-d8	89	ug/L	81
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		Chlorobenzene	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		Ethylbenzene	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		2-Propanone	0	ug/L	60
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		2-Butanone	0	ug/L	60
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		Dibromofluoromethane (S)	105	ug/L	83
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$624		4-Bromofluorobenzene (S)	98	ug/L	72
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		pyridine	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		2-Fluorophenol	25.3	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		aniline	0	ug/L	6.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		Phenol-d6	17.0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		Phenol	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		n-decane	0	ug/L	6.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		o-cresol	0	ug/L	6.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		acetophenone	0	ug/L	6.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		Hexachloroethane	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		Nitrobenzene-d5	58.8	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		p-cresol	0	ug/L	6.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		Nitrobenzene	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		Isophorone	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		Decafluorobiphenyl	37.5	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		Naphthalene	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		1-Fluoronaphthalene	53.4	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		alpha terpineol	0	ug/L	6.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625		2-Chloronaphthalene	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Acenaphthylene	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Acenaphthene	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	4-Nitrophenol	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Diethyl phthalate	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Fluorene	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	2,4,6-Tribromophenol	65.7	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Pentachlorophenol	0	ug/L	6.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	n-octadecane	0	ug/L	6.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Phenanthrene	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Anthracene	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	carbazole	0	ug/L	6.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Fluoranthene	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Benzidine	0	ug/L	6.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Pyrene	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Chrysene	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Di-n-octyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Perylene-D12	50.0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Hexachloroethane	0	ug/L	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	2,3-Dichloroaniline	0	ug/L	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Diethylphthalate	0	ug/L	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Benzo[ghi]perylene	0	ug/L	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	9-Thiabicyclo[3.3.1]non-6-en-2-amine, T	3	ug/L	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	2-Hexene, 2,5,5-trimethyl- T	14	ug/L	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	2-Hexene, 3,5,5-trimethyl- T	4	ug/L	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	1-Pentene, 3-ethyl-2-methyl- T	3	ug/L	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	2-Butenal, 3-methyl- T	5	ug/L	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Undecane, 3,3-dimethyl- T	2	ug/L	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Pentane, 2,3,4-trimethyl- T	18	ug/L	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Octane, 3-methyl-6-methylene- T	3	ug/L	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	Pentane, 2,3,4-trimethyl- T2	4	ug/L	
AC08438	LM95	Little Miami Watershed	95	10/11/2012	10:30	\$625	TOTAL AMOUNT	613	ug/L	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	86	CFU/100mL	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	E-COLI	E.coli (Colilert)	66	MPN	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	TDS	Total Dissolved Solids	440	mg/L	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	SO4	Sulfate	47.0	mg/L	12.5
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	CL	Chloride	82.3	mg/L	1.00
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	TSS	Tot. Suspended Solids	16	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	SSC	Suspended Sediment Concentration	11.8	mg/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	HARD	Hardness as CaCO3	258	mg/l	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	COD	COD	34	mg/L	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	526	uS/cm	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	12.18	Deg C	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	PH_FLD	pH (Field)	8.05	S.U.	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	12.90	mg/l	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	696	uS/cm	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	NO3NO2	Nitrate + Nitrite	1.54	mg/L	0.5
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	TKN	Total Kjeldahl Nitrogen	0.1344	mg/L	0.5
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	TKP	Total Kjeldahl Phosphorus	0.4069	mg/L	0.5
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	NO2	Nitrite as N	0.0059	mg/l	0.005
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	NO3	Nitrate as N (calculated)	1.5341	mg/l	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	Aldrin	AA	ug/L	0.02
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	Chlordane	AA	ug/L	0.1
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	Endrin	AA	ug/L	0.02
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	Toxaphene	AA	ug/L	1.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	Surr: Decachlorobiphenyl	0.831	%	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$PEST	Surr: Tetrachloro-m-xylene	0.803	%	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	Bromochloromethane	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	Chloromethane	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	Bromomethane	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	Chloroethane	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	Acrolein	0	ug/L	100.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	Acrylonitrile	0	ug/L	100.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	Methylene Chloride	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	Chloroform	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	Benzene	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	Trichloroethene	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	Bromodichloromethane	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624		Bromoform	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624		Toluene	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624		Toluene-d8	90	ug/L	81
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624		Chlorobenzene	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624		Ethylbenzene	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624		2-Propanone	0	ug/L	60
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624		2-Butanone	0	ug/L	60
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624		Dibromofluoromethane (S)	103	ug/L	83
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$624		4-Bromofluorobenzene (S)	95	ug/L	72
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		pyridine	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		2-Fluorophenol	35.3	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		aniline	0	ug/L	6.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Phenol-d6	20.3	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Phenol	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		2-Chlorophenol	0	ug/L	6.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		n-decane	0	ug/L	6.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		o-cresol	0	ug/L	6.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		acetophenone	0	ug/L	6.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Hexachloroethane	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Nitrobenzene-d5	66.5	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		p-cresol	0	ug/L	6.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Nitrobenzene	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Isophorone	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Decafluorobiphenyl	53.4	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		2-Nitrophenol	0	ug/L	6.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Naphthalene	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		1-Fluoronaphthalene	60.5	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		alpha terpineol	0	ug/L	6.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Acenaphthylene	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Acenaphthene	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		4-Nitrophenol	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Diethyl phthalate	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Fluorene	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Phenanthrene-D10	50.0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		2,4,6-Tribromophenol	67.1	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Pentachlorophenol	0	ug/L	6.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		n-octadecane	0	ug/L	6.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Phenanthrene	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Anthracene	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		carbazole	0	ug/L	6.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Fluoranthene	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Benzidine	0	ug/L	6.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Pyrene	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Chrysene	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Perylene-D12	50.0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Hexachloroethane	0	ug/L	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		2,3-Dichloroaniline	0	ug/L	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Diethylphthalate	0	ug/L	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Benzo[ghi]perylene	0	ug/L	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Cyclohexanone, 2-hydroxy- T	4	ug/L	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		2-Hexene, 3,5,5-trimethyl- T	14	ug/L	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		2-Hexene, 3,5,5-trimethyl- T2	5	ug/L	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		1-Silacyclo-3-pentene T	4	ug/L	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	5	ug/L	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	5	ug/L	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		2,4,4-Trimethyl-1-hexene T	3	ug/L	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Decane, 3,3,4-trimethyl- T	17	ug/L	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		1-Octene, 3-ethyl- T	3	ug/L	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		Decane, 3,3,4-trimethyl- T2	4	ug/L	
AC08439	LM17	Little Miami Watershed	17 (3261-01)	10/11/2012	11:00	\$625		TOTAL AMOUNT	666	ug/L	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30		MF_CF	Fecal Coliform, Membrane Filter	150	CFU/100mL	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30		E-COLI	E.coli (Colilert)	99	MPN	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30		TDS	Total Dissolved Solids	440	mg/L	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30		SO4	Sulfate	94.5	mg/L	25.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30		CL	Chloride	51.0	mg/L	1.00
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30		TSS	Tot. Suspended Solids	6	mg/L	2
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30		SSC	Suspended Sediment Concentration	6.4	mg/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30		HARD	Hardness as CaCO3	222	mg/l	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30		COD	COD	19	mg/L	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	422	uS/cm	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30		TEMP_FLD	Temperature (Field) Celsius	13.42	Deg C	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30		PH_FLD	pH (Field)	8.17	S.U.	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30		DO_FLD	Dissolved Oxygen (field) mg/L	13.98	mg/l	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30		CONDUCTIVITY	Specific Conductivity (uS/cm)	541	uS/cm	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30		NH3	Ammonia as N	0	mg/L	0.5
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30		NO3NO2	Nitrate + Nitrite	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	TKN	Total Kjeldahl Nitrogen	0.1144	mg/L	0.5
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	TKP	Total Kjeldahl Phosphorus	0.3205	mg/L	0.5
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	NO2	Nitrite as N	0.0018	mg/l	0.005
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	Aldrin	AA	ug/L	0.02
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	Chlordane	AA	ug/L	0.1
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	Endrin	AA	ug/L	0.02
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	Surr: Decachlorobiphenyl	0.858	%	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$PEST	Surr: Tetrachloro-m-xylene	0.823	%	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624	Bromochloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		Chloromethane	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		Vinyl Chloride	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		Bromomethane	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		Chloroethane	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		Acrolein	0	ug/L	100.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		Acrylonitrile	0	ug/L	100.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		Methylene Chloride	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		Chloroform	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		Benzene	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		Trichloroethene	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		Bromoform	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		Toluene	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		Toluene-d8	90	ug/L	81
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624		Chlorobenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624	Ethylbenzene	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624	2-Propanone	0	ug/L	60
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624	2-Butanone	0	ug/L	60
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624	Dibromofluoromethane (S)	102	ug/L	83
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$624	4-Bromofluorobenzene (S)	94	ug/L	72
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	pyridine	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	2-Fluorophenol	21.4	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	aniline	0	ug/L	6.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	Phenol-d6	15.6	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	Phenol	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	2-Chlorophenol	0	ug/L	6.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	n-decane	0	ug/L	6.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	o-cresol	0	ug/L	6.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	acetophenone	0	ug/L	6.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	Hexachloroethane	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	Nitrobenzene-d5	58.9	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	p-cresol	0	ug/L	6.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	Nitrobenzene	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	Isophorone	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	Decafluorobiphenyl	45.8	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	2-Nitrophenol	0	ug/L	6.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Naphthalene	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		1-Fluoronaphthalene	55.4	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		alpha terpineol	0	ug/L	6.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Acenaphthylene	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Acenaphthene	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		4-Nitrophenol	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Diethyl phthalate	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Fluorene	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		2,4,6-Tribromophenol	38.1	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Pentachlorophenol	0	ug/L	6.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		n-octadecane	0	ug/L	6.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Phenanthrene	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Anthracene	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		carbazole	0	ug/L	6.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Fluoranthene	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Benzidine	0	ug/L	6.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Pyrene	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Chrysene	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Hexachloroethane	0	ug/L	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Diethylphthalate	0	ug/L	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		2,5-Cyclohexadien-1-one, 3,5-dihydroxy T	3	ug/L	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		2-Hexene, 3,5,5-trimethyl- T	15	ug/L	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		2-Hexene, 2,5,5-trimethyl- T	5	ug/L	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		1-Silacyclo-3-pentene T	3	ug/L	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	5	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	2-Butenal, 3-methyl- T	5	ug/L	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	1-Hexene, 3,4,5-trimethyl- T	4	ug/L	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	Decane, 3,3,4-trimethyl- T	19	ug/L	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	Octane, 3-methyl-6-methylene- T	3	ug/L	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	Pentane, 2,3,4-trimethyl- T	4	ug/L	
AC08440	LM103	Little Miami Watershed	103	10/11/2012	11:30	\$625	TOTAL AMOUNT	602	ug/L	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	MF_CF	Fecal Coliform, Membrane Filter	270	CFU/100mL	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	E-COLI	E.coli (Colilert)	1733	MPN	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	TDS	Total Dissolved Solids	640	mg/L	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	BOD	Biochemical Oxygen Demand	5	mg/L	2
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	SO4	Sulfate	107	mg/L	62.5
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	CL	Chloride	256	mg/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	TSS	Tot. Suspended Solids	216	mg/L	2
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	SSC	Suspended Sediment Concentration	974	mg/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	HARD	Hardness as CaCO3	386	mg/l	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	COD	COD	5	mg/L	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	920	uS/cm	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	TEMP_FLD	Temperature (Field) Celsius	11.28	Deg C	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	PH_FLD	pH (Field)	7.61	S.U.	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	DO_FLD	Dissolved Oxygen (field) mg/L	11.70	mg/l	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	1247	uS/cm	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$ICP	Aluminum	0.407	mg/L	0.348
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$ICP	Antimony	0.000	mg/L	0.006
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$ICP	Arsenic	0.304	mg/L	0.012
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$ICP	Barium	0.115	mg/L	0.003
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$ICP	Beryllium	0.000	mg/L	0.009
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$ICP	Cadmium	0.000	mg/L	0.012
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$ICP	Calcium	111.389	mg/L	0.066
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$ICP	Chromium	0.000	mg/L	0.006
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$ICP	Cobalt	0.000	mg/L	0.006
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$ICP	Copper	0.027	mg/L	0.006
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$ICP	Iron	1.221	mg/L	0.018
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$ICP	Lead	0.013	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$ICP	Magnesium	32.296	mg/L	0.021
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$ICP	Manganese	0.055	mg/L	0.009
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$ICP	Nickel	0.011	mg/L	0.003
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$ICP	Selenium	0.018	mg/L	0.009
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$ICP	Silver	0.000	mg/L	0.003
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$ICP	Strontium	0.512	mg/L	0.009
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$ICP	Thallium	0.019	mg/L	0.012
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$ICP	Tin	0.000	mg/L	0.006
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$ICP	Vanadium	0.000	mg/L	0.018
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$ICP	Zinc	0.042	mg/L	0.006
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	PB_FU	Lead by Furnace	10.39	ug/L	0.5
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	AS_FU	Arsenic by Furnace	249.6	ug/L	1.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	CU_FU	Copper by Furnace	15.9	ug/L	1
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	NH3	Ammonia as N	0	mg/L	0.5
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	NO3NO2	Nitrate + Nitrite	0.886	mg/L	0.5
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	TKN	Total Kjeldahl Nitrogen	1.922	mg/L	0.5
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	TKP	Total Kjeldahl Phosphorus	1.984	mg/L	0.5
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	NO2	Nitrite as N	0.0426	mg/l	0.005
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	NO3	Nitrate as N (calculated)	0.8434	mg/l	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	Aldrin	AA	ug/L	0.02
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	Chlordane	AA	ug/L	0.1
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	Dieldrin	AA	ug/L	0.02
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	Endosulfan II	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	Endrin	AA	ug/L	0.02
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	Heptachlor	AA	ug/L	0.02
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	Toxaphene	AA	ug/L	1.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	PCB 1016	AA	ug/L	0.5
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	PCB 1221	AA	ug/L	0.5
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	PCB 1232	AA	ug/L	0.5
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	PCB 1242	AA	ug/L	0.5
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	PCB 1248	AA	ug/L	0.5
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	PCB 1254	AA	ug/L	0.5
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	PCB 1260	AA	ug/L	0.5
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	Surr: Decachlorobiphenyl	0.789	%	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$PEST	Surr: Tetrachloro-m-xylene	0.920	%	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Bromochloromethane	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Chloromethane	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Vinyl Chloride	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Bromomethane	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Chloroethane	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Acrolein	0	ug/L	100.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Acrylonitrile	0	ug/L	100.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Methylene Chloride	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Chloroform	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Carbon Tetrachloride	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Benzene	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Trichloroethene	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Bromodichloromethane	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Dibromochloromethane	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Bromoform	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Tetrachloroethene	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Toluene	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Toluene-d8	100	ug/L	81
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Chlorobenzene	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Ethylbenzene	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	2-Propanone	0	ug/L	60
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	2-Butanone	0	ug/L	60
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	Dibromofluoromethane (S)	100	ug/L	83
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$624	4-Bromofluorobenzene (S)	101	ug/L	72
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	pyridine	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	2-Fluorophenol	29.7	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	aniline	0	ug/L	6.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Phenol-d6	18.4	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Phenol	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	2-Chlorophenol	0	ug/L	6.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	n-decane	0	ug/L	6.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	o-cresol	0	ug/L	6.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	acetophenone	0	ug/L	6.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Hexachloroethane	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Nitrobenzene-d5	55.3	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	p-cresol	0	ug/L	6.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Nitrobenzene	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Isophorone	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Decafluorobiphenyl	44.0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	2-Nitrophenol	0	ug/L	6.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Naphthalene	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	1-Fluoronaphthalene	51.7	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	alpha terpineol	0	ug/L	6.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Acenaphthylene	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Acenaphthene	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	2,4-Dinitrophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	4-Nitrophenol	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Diethyl phthalate	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Fluorene	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	2,4,6-Tribromophenol	78.9	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Pentachlorophenol	0	ug/L	6.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	n-octadecane	0	ug/L	6.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Phenanthrene	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Anthracene	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	carbazole	0	ug/L	6.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Fluoranthene	6.5	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Benzidine	0	ug/L	6.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Pyrene	5.0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Chrysene	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Perylene-D12	50.0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625		Hexachloroethane	0	ug/L	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625		2,3-Dichloroaniline	0	ug/L	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625		Diethylphthalate	0	ug/L	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625		Benzo[b]fluoranthene	5	ug/L	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625		Benzo[k]fluoranthene	6	ug/L	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625		Benzo[ghi]perylene	0	ug/L	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625		Ethane, 1,1,2-trichloro- T	6	ug/L	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625		2-Hexene, 2,5,5-trimethyl- T	13	ug/L	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	4	ug/L	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625		Ethane, 1,1,2,2-tetrachloro- T	4	ug/L	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625		Pentane, 2,3,4-trimethyl- T	16	ug/L	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625		Thiophane, propyl- T	4	ug/L	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625		Tetradecanoic acid T	6	ug/L	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625		Fluoranthene T2	9	ug/L	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625		Pyrene T2	7	ug/L	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625		Benz[e]acephenanthrylene T	5	ug/L	
AC08506	LM78	Little Miami Watershed	78	10/12/2012	08:20	\$625		TOTAL AMOUNT	673	ug/L	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45		MF_CF	Fecal Coliform, Membrane Filter	833	CFU/100mL	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45		E-COLI	E.coli (Colilert)	1203	MPN	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45		TDS	Total Dissolved Solids	600	mg/L	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45		SO4	Sulfate	144	mg/L	25.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45		CL	Chloride	298	mg/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45		TSS	Tot. Suspended Solids	6	mg/L	2
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45		SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45		HARD	Hardness as CaCO3	362	mg/l	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45		COD	COD	5	mg/L	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	861	uS/cm	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	TEMP_FLD	Temperature (Field) Celsius	9.37	Deg C	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	PH_FLD	pH (Field)	7.97	S.U.	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	DO_FLD	Dissolved Oxygen (field) mg/L	12.32	mg/l	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	1228	uS/cm	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$ICP	Aluminum	0.000	mg/L	0.348
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$ICP	Antimony	0.000	mg/L	0.006
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$ICP	Arsenic	0.108	mg/L	0.012
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$ICP	Barium	0.075	mg/L	0.003
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$ICP	Beryllium	0.000	mg/L	0.009
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$ICP	Cadmium	0.000	mg/L	0.012
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$ICP	Calcium	96.694	mg/L	0.066
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$ICP	Chromium	0.000	mg/L	0.006
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$ICP	Cobalt	0.000	mg/L	0.006
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$ICP	Copper	0.009	mg/L	0.006
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$ICP	Iron	0.152	mg/L	0.018
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$ICP	Lead	0.000	mg/L	0.006
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$ICP	Magnesium	32.638	mg/L	0.021
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$ICP	Manganese	0.036	mg/L	0.009
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$ICP	Nickel	0.004	mg/L	0.003
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$ICP	Selenium	0.036	mg/L	0.009
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$ICP	Silver	0.000	mg/L	0.003
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$ICP	Strontium	0.454	mg/L	0.009
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$ICP	Thallium	0.032	mg/L	0.012
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$ICP	Tin	0.000	mg/L	0.006
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$ICP	Vanadium	0.000	mg/L	0.018
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$ICP	Zinc	0.008	mg/L	0.006
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	PB_FU	Lead by Furnace	0.34	ug/L	0.5
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	AS_FU	Arsenic by Furnace	93.04	ug/L	1.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	CU_FU	Copper by Furnace	4.5	ug/L	1
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	NH3	Ammonia as N	0	mg/L	0.5
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	TKN	Total Kjeldahl Nitrogen	.4664	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	TKP	Total Kjeldahl Phosphorus	.1547	mg/L	0.5
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	NO2	Nitrite as N	0.0112	mg/l	0.005
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	Aldrin	AA	ug/L	0.02
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	Chlordane	AA	ug/L	0.1
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	Dieldrin	AA	ug/L	0.02
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	Endrin	AA	ug/L	0.02
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	Heptachlor	AA	ug/L	0.02
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	Toxaphene	AA	ug/L	1.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	PCB 1016	AA	ug/L	0.5
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	PCB 1221	AA	ug/L	0.5
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	PCB 1232	AA	ug/L	0.5
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	PCB 1242	AA	ug/L	0.5
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	PCB 1248	AA	ug/L	0.5
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	PCB 1254	AA	ug/L	0.5
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	PCB 1260	AA	ug/L	0.5
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	Surr: Decachlorobiphenyl	0.935	%	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$PEST	Surr: Tetrachloro-m-xylene	0.864	%	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Bromochloromethane	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Chloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Vinyl Chloride	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Bromomethane	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Chloroethane	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Acrolein	0	ug/L	100.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Acrylonitrile	0	ug/L	100.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Methylene Chloride	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Chloroform	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Benzene	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Trichloroethene	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Bromodichloromethane	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Dibromochloromethane	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Bromoform	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Tetrachloroethene	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Toluene	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Toluene-d8	99	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Chlorobenzene	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Ethylbenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	2-Propanone	0	ug/L	60
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	2-Butanone	0	ug/L	60
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	Dibromofloromethane (S)	102	ug/L	83
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$624	4-Bromofluorobenzene (S)	98	ug/L	72
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	pyridine	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	2-Fluorophenol	28.9	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	aniline	0	ug/L	6.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Phenol-d6	18.7	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Phenol	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	2-Chlorophenol	0	ug/L	6.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	n-decane	0	ug/L	6.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	o-cresol	0	ug/L	6.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	acetophenone	0	ug/L	6.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Hexachloroethane	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Nitrobenzene-d5	70.1	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	p-cresol	0	ug/L	6.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Nitrobenzene	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Isophorone	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Decafluorobiphenyl	58.4	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	2-Nitrophenol	0	ug/L	6.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	2,4-Dichlorophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Naphthalene	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	1-Fluoronaphthalene	72.1	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	alpha terpineol	0	ug/L	6.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Acenaphthylene	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Acenaphthene	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	4-Nitrophenol	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Diethyl phthalate	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Fluorene	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	2,4,6-Tribromophenol	65.0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Pentachlorophenol	0	ug/L	6.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	n-octadecane	0	ug/L	6.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Phenanthrene	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Anthracene	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	carbazole	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Fluoranthene	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Benzidine	0	ug/L	6.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Pyrene	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Chrysene	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Perylene-D12	50.0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Hexachloroethane	0	ug/L	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	2,3-Dichloroaniline	0	ug/L	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Diethylphthalate	0	ug/L	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Benzo[ghi]perylene	0	ug/L	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	6,6-Dimethyl-cyclohex-2-en-1-ol T	4	ug/L	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	2-Hexene, 2,5,5-trimethyl- T	19	ug/L	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	2-Hexene, 3,5,5-trimethyl- T	6	ug/L	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	1-Silacyclo-3-pentene T	4	ug/L	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	9	ug/L	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	2-Butenal, 3-methyl- T	6	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Analysis Code	Analysis Description	Results	Units	MDL
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Heptane, 3,3,5-trimethyl- T	3	ug/L	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Decane, 3,3,4-trimethyl- T	21	ug/L	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Octane, 3-methyl-6-methylene- T	3	ug/L	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	Decane, 3,3,4-trimethyl- T2	5	ug/L	
AC08507	LM73	Little Miami Watershed	73	10/12/2012	08:45	\$625	TOTAL AMOUNT	693	ug/L	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	MF_CF	Fecal Coliform, Membrane Filter	186	CFU/100mL	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	E-COLI	E.coli (Colilert)	214	MPN	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	TDS	Total Dissolved Solids	660	mg/L	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	BOD	Biochemical Oxygen Demand	AE	mg/L	2
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	SO4	Sulfate	116	mg/L	25.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	CL	Chloride	493	mg/L	10.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	TSS	Tot. Suspended Solids	12	mg/L	2
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	SSC	Suspended Sediment Concentration	5.6	mg/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	HARD	Hardness as CaCO3	452	mg/l	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	COD	COD	28	mg/L	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	1025	uS/cm	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	TEMP_FLD	Temperature (Field) Celsius	11.11	Deg C	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	PH_FLD	pH (Field)	8.15	S.U.	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	DO_FLD	Dissolved Oxygen (field) mg/L	7.57	mg/l	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	1394	uS/cm	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$ICP	Aluminum	0.000	mg/L	0.348
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$ICP	Antimony	0.000	mg/L	0.006
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$ICP	Arsenic	0.000	mg/L	0.012
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$ICP	Barium	0.056	mg/L	0.003
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$ICP	Beryllium	0.000	mg/L	0.009
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$ICP	Cadmium	0.000	mg/L	0.012
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$ICP	Calcium	138.771	mg/L	0.066
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$ICP	Chromium	0.000	mg/L	0.006
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$ICP	Cobalt	0.000	mg/L	0.006
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$ICP	Copper	0.000	mg/L	0.006
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$ICP	Iron	0.569	mg/L	0.018
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$ICP	Lead	0.000	mg/L	0.006
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$ICP	Magnesium	32.210	mg/L	0.021

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$ICP	Manganese	0.412	mg/L	0.009
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$ICP	Nickel	0.000	mg/L	0.003
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$ICP	Selenium	0.027	mg/L	0.009
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$ICP	Silver	0.000	mg/L	0.003
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$ICP	Strontium	0.469	mg/L	0.009
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$ICP	Thallium	0.014	mg/L	0.012
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$ICP	Tin	0.000	mg/L	0.006
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$ICP	Vanadium	0.000	mg/L	0.018
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$ICP	Zinc	0.000	mg/L	0.006
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	PB_FU	Lead by Furnace	0.15	ug/L	0.5
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	AS_FU	Arsenic by Furnace	1.57	ug/L	1.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	CU_FU	Copper by Furnace	4.4	ug/L	1
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	NH3	Ammonia as N	0	mg/L	0.5
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	TKN	Total Kjeldahl Nitrogen	0.5041	mg/L	0.5
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	NO2	Nitrite as N	0.0024	mg/l	0.005
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	Aldrin	AA	ug/L	0.02
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	Chlordane	AA	ug/L	0.10
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	Endrin	AA	ug/L	0.02
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	Toxaphene	AA	ug/L	1.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	Surr: Decachlorobiphenyl	0.833	%	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$PEST	Surr: Tetrachloro-m-xylene	0.901	%	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Bromochloromethane	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Chloromethane	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Bromomethane	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Chloroethane	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Acrolein	0	ug/L	100.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Acrylonitrile	0	ug/L	100.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Methylene Chloride	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Chloroform	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Benzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Trichloroethene	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Bromodichloromethane	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Dibromochloromethane	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Bromoform	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Tetrachloroethene	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Toluene	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Toluene-d8	98	ug/L	81
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Chlorobenzene	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Ethylbenzene	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	2-Propanone	0	ug/L	60
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	2-Butanone	0	ug/L	60
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	Dibromofluoromethane (S)	101	ug/L	83
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$624	4-Bromofluorobenzene (S)	97	ug/L	72
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	pyridine	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	2-Fluorophenol	32.2	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	aniline	0	ug/L	6.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Phenol-d6	19.1	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Phenol	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	2-Chlorophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	n-decane	0	ug/L	6.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	o-cresol	0	ug/L	6.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	acetophenone	0	ug/L	6.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Hexachloroethane	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Nitrobenzene-d5	73.9	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	p-cresol	0	ug/L	6.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Nitrobenzene	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Isophorone	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Decafluorobiphenyl	59.2	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	2-Nitrophenol	0	ug/L	6.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Naphthalene	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	1-Fluoronaphthalene	71.8	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	alpha terpineol	0	ug/L	6.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Acenaphthylene	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Acenaphthene	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	4-Nitrophenol	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Diethyl phthalate	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Fluorene	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	2,4,6-Tribromophenol	66.6	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Pentachlorophenol	0	ug/L	6.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	n-octadecane	0	ug/L	6.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Phenanthrene	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Anthracene	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	carbazole	0	ug/L	6.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Fluoranthene	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Benzidine	0	ug/L	6.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Pyrene	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Chrysene	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Perylene-D12	50.0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Hexachloroethane	0	ug/L	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	2,3-Dichloroaniline	0	ug/L	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Diethylphthalate	0	ug/L	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Benzo[ghi]perylene	0	ug/L	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	6,6-Dimethyl-cyclohex-2-en-1-ol T	4	ug/L	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	2-Hexene, 2,5,5-trimethyl- T	17	ug/L	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	2-Hexene, 3,5,5-trimethyl- T	5	ug/L	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	14	ug/L	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	5	ug/L	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Ethane, 1,1,2,2-tetrachloro- T	4	ug/L	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	2,4,4-Trimethyl-1-hexene T	4	ug/L	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Pentane, 2,3,4-trimethyl- T	21	ug/L	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Pentane, 2,3,4-trimethyl- T2	5	ug/L	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	Hexanoic acid T	5	ug/L	
AC08508	LM74	Little Miami Watershed	74	10/12/2012	09:00	\$625	TOTAL AMOUNT	708	ug/L	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	MF_CF	Fecal Coliform, Membrane Filter	50	CFU/100mL	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	E-COLI	E.coli (Colilert)	56	MPN	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	TDS	Total Dissolved Solids	650	mg/L	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	SO4	Sulfate	136	mg/L	25.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	CL	Chloride	243	mg/L	4.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	TSS	Tot. Suspended Solids	10	mg/L	2
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	HARD	Hardness as CaCO3	496	mg/l	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	COD	COD	5	mg/L	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	975	uS/cm	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	TEMP_FLD	Temperature (Field) Celsius	14.56	Deg C	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	PH_FLD	pH (Field)	7.98	S.U.	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	DO_FLD	Dissolved Oxygen (field) mg/L	14.22	mg/l	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	1218	uS/cm	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$ICP	Aluminum	0.000	mg/L	0.348
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$ICP	Antimony	0.000	mg/L	0.006
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$ICP	Arsenic	0.015	mg/L	0.012
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$ICP	Barium	0.079	mg/L	0.003
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$ICP	Beryllium	0.000	mg/L	0.009
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$ICP	Cadmium	0.000	mg/L	0.012
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$ICP	Calcium	150.578	mg/L	0.066
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$ICP	Chromium	0.000	mg/L	0.006
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$ICP	Cobalt	0.000	mg/L	0.006
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$ICP	Copper	0.000	mg/L	0.006
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$ICP	Iron	0.082	mg/L	0.018
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$ICP	Lead	0.000	mg/L	0.006
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$ICP	Magnesium	35.588	mg/L	0.021
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$ICP	Manganese	0.020	mg/L	0.009
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$ICP	Nickel	0.000	mg/L	0.003
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$ICP	Selenium	0.035	mg/L	0.009
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$ICP	Silver	0.000	mg/L	0.003
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$ICP	Strontium	0.428	mg/L	0.009
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$ICP	Thallium	0.000	mg/L	0.012
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$ICP	Tin	0.000	mg/L	0.006
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$ICP	Vanadium	0.000	mg/L	0.018
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$ICP	Zinc	0.000	mg/L	0.006
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	PB_FU	Lead by Furnace	0.15	ug/L	0.5
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	AS_FU	Arsenic by Furnace	10.50	ug/L	1.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	CU_FU	Copper by Furnace	2.0	ug/L	1
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	NH3	Ammonia as N	0	mg/L	0.5
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	NO3NO2	Nitrate + Nitrite	1.45	mg/L	0.5
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	NO2	Nitrite as N	0.0034	mg/l	0.005
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	NO3	Nitrate as N (calculated)	1.4466	mg/l	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	Aldrin	AA	ug/L	0.02
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	Chlordane	AA	ug/L	0.10
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	Dieldrin	AA	ug/L	0.02
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	Endrin	AA	ug/L	0.02
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	Heptachlor	AA	ug/L	0.02
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	Toxaphene	AA	ug/L	1.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	PCB 1016	AA	ug/L	0.5
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	PCB 1221	AA	ug/L	0.5
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	PCB 1232	AA	ug/L	0.5
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	PCB 1242	AA	ug/L	0.5
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	PCB 1248	AA	ug/L	0.5
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	PCB 1254	AA	ug/L	0.5
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	PCB 1260	AA	ug/L	0.5
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	Surr: Decachlorobiphenyl	0.902	%	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$PEST	Surr: Tetrachloro-m-xylene	0.773	%	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Bromochloromethane	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Chloromethane	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Vinyl Chloride	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Bromomethane	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Chloroethane	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Acrolein	0	ug/L	100.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Acrylonitrile	0	ug/L	100.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Methylene Chloride	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Chloroform	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Benzene	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Trichloroethene	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Bromodichloromethane	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Dibromochloromethane	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Bromoform	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Tetrachloroethene	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Toluene	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Toluene-d8	99	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Chlorobenzene	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Ethylbenzene	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Bromofluorobenzene	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	2-Propanone	0	ug/L	60
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	2-Butanone	0	ug/L	60
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	Dibromofluoromethane (S)	102	ug/L	83
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$624	4-Bromofluorobenzene (S)	100	ug/L	72
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	pyridine	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	2-Fluorophenol	37.0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	aniline	0	ug/L	6.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Phenol-d6	21.9	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Phenol	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	2-Chlorophenol	0	ug/L	6.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	n-decane	0	ug/L	6.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	o-cresol	0	ug/L	6.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	acetophenone	0	ug/L	6.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Hexachloroethane	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Nitrobenzene-d5	69.9	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	p-cresol	0	ug/L	6.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Nitrobenzene	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Isophorone	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Decafluorobiphenyl	44.8	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	2-Nitrophenol	0	ug/L	6.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Naphthalene	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	1-Fluoronaphthalene	57.9	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	alpha terpineol	0	ug/L	6.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Acenaphthylene	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Acenaphthene	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	4-Nitrophenol	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Diethyl phthalate	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Fluorene	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	2,4,6-Tribromophenol	73.1	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Pentachlorophenol	0	ug/L	6.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	n-octadecane	0	ug/L	6.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Phenanthrene	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Anthracene	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	carbazole	0	ug/L	6.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Di-n-butyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Fluoranthene	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Benzidine	0	ug/L	6.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Pyrene	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Chrysene	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Perylene-D12	50.0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Hexachloroethane	0	ug/L	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	2,3-Dichloroaniline	0	ug/L	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Diethylphthalate	0	ug/L	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Benzo[ghi]perylene	0	ug/L	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	6,6-Dimethyl-cyclohex-2-en-1-ol T	4	ug/L	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	2-Hexene, 2,5,5-trimethyl- T	14	ug/L	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	2-Hexene, 3,5,5-trimethyl- T	5	ug/L	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Hydrazine, 1,1-bis(1-methylethyl)- T	8	ug/L	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Styrene T	4	ug/L	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	4	ug/L	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Pentane, 2,3,4-trimethyl- T	17	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	Hexane, 3,3,4-trimethyl- T	4	ug/L	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	1,2-Propanediol, 3-benzyloxy-1,2-diac T	5	ug/L	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	1-Propene, 3-(2-cyclopentenyl)-2-methy T	4	ug/L	
AC08509	LM75	Little Miami Watershed	75	10/12/2012	09:15	\$625	TOTAL AMOUNT	674	ug/L	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	MF_CF	Fecal Coliform, Membrane Filter	230	CFU/100mL	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	E-COLI	E.coli (Colilert)	140	MPN	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	TDS	Total Dissolved Solids	610	mg/L	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	SO4	Sulfate	128	mg/L	25.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	CL	Chloride	203	mg/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	TSS	Tot. Suspended Solids	12	mg/L	2
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	SSC	Suspended Sediment Concentration	6.4	mg/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	HARD	Hardness as CaCO3	456	mg/l	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	COD	COD	5	mg/L	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	796	uS/cm	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	TEMP_FLD	Temperature (Field) Celsius	11.23	Deg C	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	PH_FLD	pH (Field)	8.15	S.U.	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	DO_FLD	Dissolved Oxygen (field) mg/L	13.55	mg/l	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	1080	uS/cm	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$ICP	Aluminum	0.000	mg/L	0.348
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$ICP	Antimony	0.000	mg/L	0.006
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$ICP	Arsenic	0.023	mg/L	0.012
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$ICP	Barium	0.074	mg/L	0.003
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$ICP	Beryllium	0.000	mg/L	0.009
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$ICP	Cadmium	0.000	mg/L	0.012
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$ICP	Calcium	142.822	mg/L	0.066
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$ICP	Chromium	0.000	mg/L	0.006
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$ICP	Cobalt	0.000	mg/L	0.006
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$ICP	Copper	0.008	mg/L	0.006
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$ICP	Iron	0.173	mg/L	0.018
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$ICP	Lead	0.000	mg/L	0.006
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$ICP	Magnesium	34.219	mg/L	0.021
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$ICP	Manganese	0.015	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$ICP	Nickel	0.007	mg/L	0.003
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$ICP	Selenium	0.037	mg/L	0.009
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$ICP	Silver	0.000	mg/L	0.003
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$ICP	Strontium	0.436	mg/L	0.009
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$ICP	Thallium	0.000	mg/L	0.012
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$ICP	Tin	0.000	mg/L	0.006
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$ICP	Vanadium	0.000	mg/L	0.018
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$ICP	Zinc	0.010	mg/L	0.006
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	PB_FU	Lead by Furnace	0.62	ug/L	0.5
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	AS_FU	Arsenic by Furnace	10.33	ug/L	1.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	CU_FU	Copper by Furnace	4.7	ug/L	1
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	NH3	Ammonia as N	0	mg/L	0.5
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	NO3NO2	Nitrate + Nitrite	13.2	mg/L	0.5
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	NO2	Nitrite as N	0.0103	mg/l	0.005
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	NO3	Nitrate as N (calculated)	13.1897	mg/l	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	Aldrin	AA	ug/L	0.02
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	Chlordane	AA	ug/L	0.10
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	Endrin	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	Toxaphene	AA	ug/L	1.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	Surr: Decachlorobiphenyl	0.910	%	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$PEST	Surr: Tetrachloro-m-xylene	0.682	%	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Bromochloromethane	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Chloromethane	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Bromomethane	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Chloroethane	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Acrolein	0	ug/L	100.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Acrylonitrile	0	ug/L	100.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Methylene Chloride	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Chloroform	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Benzene	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Trichloroethene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Bromodichloromethane	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Dibromochloromethane	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Bromoform	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Tetrachloroethene	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Toluene	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Toluene-d8	99	ug/L	81
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Chlorobenzene	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Ethylbenzene	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	2-Propanone	0	ug/L	60
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	2-Butanone	0	ug/L	60
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	Dibromofluoromethane (S)	102	ug/L	83
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$624	4-Bromofluorobenzene (S)	100	ug/L	72
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	pyridine	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	2-Fluorophenol	25.6	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	aniline	0	ug/L	6.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Phenol-d6	17.5	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Phenol	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	2-Chlorophenol	0	ug/L	6.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	n-decane	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	o-cresol	0	ug/L	6.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	acetophenone	0	ug/L	6.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Hexachloroethane	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Nitrobenzene-d5	67.5	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	p-cresol	0	ug/L	6.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Nitrobenzene	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Isophorone	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Decafluorobiphenyl	53.4	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	2-Nitrophenol	0	ug/L	6.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Naphthalene	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	1-Fluoronaphthalene	67.1	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	alpha terpineol	0	ug/L	6.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Acenaphthylene	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Acenaphthene	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	4-Nitrophenol	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	2,4-Dinitrotoluene	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Diethyl phthalate	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Fluorene	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	2,4,6-Tribromophenol	59.0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Pentachlorophenol	0	ug/L	6.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	n-octadecane	0	ug/L	6.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Phenanthrene	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Anthracene	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	carbazole	0	ug/L	6.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Fluoranthene	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Benzidine	0	ug/L	6.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Pyrene	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Chrysene	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Perylene-D12	50.0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Benzo(ghi)perylene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Hexachloroethane	0	ug/L	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	2,3-Dichloroaniline	0	ug/L	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Diethylphthalate	0	ug/L	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Benzo[ghi]perylene	0	ug/L	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	2,5-Cyclohexadien-1-one, 3,5-dihydroxy T	4	ug/L	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	2-Hexene, 3,5,5-trimethyl- T	19	ug/L	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	2-Hexene, 3,5,5-trimethyl- T2	6	ug/L	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Cyclopentane, 1-ethyl-1-methyl- T	4	ug/L	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Hydrazine, 1,1-bis(1-methylethyl)- T	6	ug/L	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	2-Butenal, 3-methyl- T	5	ug/L	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	2,4,4-Trimethyl-1-hexene T	4	ug/L	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Pentane, 2,3,4-trimethyl- T	21	ug/L	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	1,3-Cyclobutanedione, 2,2,4,4-tetramet T	3	ug/L	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	Pentane, 2,3,4-trimethyl- T2	5	ug/L	
AC08510	LM76	Little Miami Watershed	76	10/12/2012	09:30	\$625	TOTAL AMOUNT	667	ug/L	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	MF_CF	Fecal Coliform, Membrane Filter	150	CFU/100mL	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	E-COLI	E.coli (Colilert)	162	MPN	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	TDS	Total Dissolved Solids	590	mg/L	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	SO4	Sulfate	118	mg/L	25.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	CL	Chloride	223	mg/L	4.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	TSS	Tot. Suspended Solids	6	mg/L	2
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	HARD	Hardness as CaCO3	376	mg/l	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	COD	COD	5	mg/L	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	776	uS/cm	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	TEMP_FLD	Temperature (Field) Celsius	9.96	Deg C	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	PH_FLD	pH (Field)	8.17	S.U.	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	DO_FLD	Dissolved Oxygen (field) mg/L	14.93	mg/l	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	1091	uS/cm	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$ICP	Aluminum	0.000	mg/L	0.348
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$ICP	Antimony	0.000	mg/L	0.006
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$ICP	Arsenic	0.000	mg/L	0.012
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$ICP	Barium	0.062	mg/L	0.003
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$ICP	Beryllium	0.000	mg/L	0.009
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$ICP	Cadmium	0.000	mg/L	0.012
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$ICP	Calcium	112.372	mg/L	0.066
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$ICP	Chromium	0.000	mg/L	0.006
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$ICP	Cobalt	0.000	mg/L	0.006
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$ICP	Copper	0.006	mg/L	0.006
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$ICP	Iron	0.082	mg/L	0.018
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$ICP	Lead	0.000	mg/L	0.006
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$ICP	Magnesium	31.080	mg/L	0.021
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$ICP	Manganese	0.000	mg/L	0.009
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$ICP	Nickel	0.000	mg/L	0.003
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$ICP	Selenium	0.028	mg/L	0.009
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$ICP	Silver	0.000	mg/L	0.003
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$ICP	Strontium	0.397	mg/L	0.009
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$ICP	Thallium	0.000	mg/L	0.012
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$ICP	Tin	0.000	mg/L	0.006
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$ICP	Vanadium	0.000	mg/L	0.018
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$ICP	Zinc	0.000	mg/L	0.006
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	PB_FU	Lead by Furnace	0.32	ug/L	0.5
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	AS_FU	Arsenic by Furnace	8.49	ug/L	1.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	CU_FU	Copper by Furnace	3.0	ug/L	1
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	NH3	Ammonia as N	0	mg/L	0.5
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	NO2	Nitrite as N	0.0069	mg/l	0.005

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	Aldrin	AA	ug/L	0.02
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	Chlordane	AA	ug/L	0.10
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	Dieldrin	AA	ug/L	0.02
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	Endrin	AA	ug/L	0.02
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	Heptachlor	AA	ug/L	0.02
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	Toxaphene	AA	ug/L	1.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	PCB 1016	AA	ug/L	0.5
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	PCB 1221	AA	ug/L	0.5
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	PCB 1232	AA	ug/L	0.5
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	PCB 1242	AA	ug/L	0.5
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	PCB 1248	AA	ug/L	0.5
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	PCB 1254	AA	ug/L	0.5
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	PCB 1260	AA	ug/L	0.5
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	Surr: Decachlorobiphenyl	0.845	%	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$PEST	Surr: Tetrachloro-m-xylene	0.843	%	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624	Bromochloromethane	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624	Chloromethane	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624	Vinyl Chloride	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624	Bromomethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		Chloroethane	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		Acrolein	0	ug/L	100.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		Acrylonitrile	0	ug/L	100.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		Methylene Chloride	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		Chloroform	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		Benzene	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		Trichloroethene	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		Bromodichloromethane	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		Dibromochloromethane	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		Bromoform	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		Tetrachloroethene	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		Toluene	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		Toluene-d8	99	ug/L	81
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		Chlorobenzene	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		Ethylbenzene	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624		1,3-Dichlorobenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624	2-Propanone	0	ug/L	60
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624	2-Butanone	0	ug/L	60
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624	Dibromofluoromethane (S)	104	ug/L	83
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$624	4-Bromofluorobenzene (S)	99	ug/L	72
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	pyridine	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	2-Fluorophenol	43.9	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	aniline	0	ug/L	6.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Phenol-d6	26.7	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Phenol	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	2-Chlorophenol	0	ug/L	6.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	n-decane	0	ug/L	6.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	o-cresol	0	ug/L	6.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	acetophenone	0	ug/L	6.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Hexachloroethane	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Nitrobenzene-d5	83.9	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	p-cresol	0	ug/L	6.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Nitrobenzene	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Isophorone	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Decafluorobiphenyl	71.0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	2-Nitrophenol	0	ug/L	6.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Naphthalene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		1-Fluoronaphthalene	80.5	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		alpha terpineol	0	ug/L	6.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		Acenaphthylene	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		Acenaphthene	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		4-Nitrophenol	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		Diethyl phthalate	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		Fluorene	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		2,4,6-Tribromophenol	88.9	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		Pentachlorophenol	0	ug/L	6.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		n-octadecane	0	ug/L	6.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		Phenanthrene	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		Anthracene	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		carbazole	0	ug/L	6.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625		Fluoranthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Benzidine	0	ug/L	6.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Pyrene	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Chrysene	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Perylene-D12	50.0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Hexachloroethane	0	ug/L	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	2,3-Dichloroaniline	0	ug/L	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Diethylphthalate	0	ug/L	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Benzo[ghi]perylene	0	ug/L	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	2,5-Cyclohexadien-1-one, 3,5-dihydroxy T	4	ug/L	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	2-Hexene, 2,5,5-trimethyl- T	18	ug/L	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	2-Hexene, 3,5,5-trimethyl- T	6	ug/L	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	1-Silacyclo-3-pentene T	4	ug/L	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	20	ug/L	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	2-Butenal, 3-methyl- T	5	ug/L	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	2,4,4-Trimethyl-1-hexene T	4	ug/L	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Pentane, 2,3,4-trimethyl- T	21	ug/L	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	1-Octene, 3-ethyl- T	3	ug/L	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	Pentane, 2,3,4-trimethyl- T2	5	ug/L	
AC08511	LM77	Little Miami Watershed	77	10/12/2012	09:45	\$625	TOTAL AMOUNT	786	ug/L	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	86	CFU/100mL	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	E-COLI	E.coli (Colilert)	80	MPN	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	TDS	Total Dissolved Solids	400	mg/L	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	SO4	Sulfate	81.5	mg/L	12.5
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	CL	Chloride	116	mg/L	2.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	TSS	Tot. Suspended Solids	8	mg/L	2
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	HARD	Hardness as CaCO3	282	mg/l	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	COD	COD	5	mg/L	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	571	uS/cm	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	9.30	Deg C	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	PH_FLD	pH (Field)	7.93	S.U.	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	12.91	mg/l	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	816	uS/cm	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$ICP	Aluminum	0.000	mg/L	0.348
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$ICP	Antimony	0.000	mg/L	0.006
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$ICP	Arsenic	0.000	mg/L	0.012
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$ICP	Barium	0.046	mg/L	0.003
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$ICP	Beryllium	0.000	mg/L	0.009
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$ICP	Cadmium	0.000	mg/L	0.012
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$ICP	Calcium	82.452	mg/L	0.066
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$ICP	Chromium	0.000	mg/L	0.006
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$ICP	Cobalt	0.000	mg/L	0.006
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$ICP	Copper	0.011	mg/L	0.006
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$ICP	Iron	0.133	mg/L	0.018
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$ICP	Lead	0.000	mg/L	0.006
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$ICP	Magnesium	21.533	mg/L	0.021
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$ICP	Manganese	0.030	mg/L	0.009
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$ICP	Nickel	0.000	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$ICP	Selenium	0.026	mg/L	0.009
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$ICP	Silver	0.000	mg/L	0.003
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$ICP	Strontium	0.305	mg/L	0.009
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$ICP	Thallium	0.000	mg/L	0.012
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$ICP	Tin	0.000	mg/L	0.006
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$ICP	Vanadium	0.000	mg/L	0.018
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$ICP	Zinc	0.019	mg/L	0.006
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	PB_FU	Lead by Furnace	1.15	ug/L	0.5
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	AS_FU	Arsenic by Furnace	5.61	ug/L	1.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	CU_FU	Copper by Furnace	7.2	ug/L	1
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	NO2	Nitrite as N	0.0005	mg/l	0.005
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	Aldrin	AA	ug/L	0.02
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	Chlordane	AA	ug/L	0.10
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	Dieldrin	AA	ug/L	0.02
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	Endrin	AA	ug/L	0.02
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	Endrin aldehyde	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	Heptachlor	AA	ug/L	0.02
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	Toxaphene	AA	ug/L	1.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	Surr: Decachlorobiphenyl	0.844	%	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$PEST	Surr: Tetrachloro-m-xylene	0.809	%	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624	Bromochloromethane	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624	Chloromethane	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624	Bromomethane	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624	Chloroethane	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624	Acrolein	0	ug/L	100.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624	Acrylonitrile	0	ug/L	100.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624	Methylene Chloride	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624	Chloroform	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624	Benzene	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624	Trichloroethene	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624	2-Chloroethylvinylether	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624		Bromodichloromethane	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624		Bromoform	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624		Toluene	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624		Toluene-d8	97	ug/L	81
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624		Chlorobenzene	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624		Ethylbenzene	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624		2-Propanone	0	ug/L	60
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624		2-Butanone	0	ug/L	60
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624		Dibromofluoromethane (S)	101	ug/L	83
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$624		4-Bromofluorobenzene (S)	97	ug/L	72
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		pyridine	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		2-Fluorophenol	20.9	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		aniline	0	ug/L	6.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Phenol-d6	15.3	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Phenol	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		2-Chlorophenol	0	ug/L	6.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		n-decane	0	ug/L	6.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		o-cresol	0	ug/L	6.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		acetophenone	0	ug/L	6.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Hexachloroethane	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Nitrobenzene-d5	58.1	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		p-cresol	0	ug/L	6.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Nitrobenzene	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Isophorone	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Decafluorobiphenyl	54.6	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		2-Nitrophenol	0	ug/L	6.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Naphthalene	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		1-Fluoronaphthalene	55.2	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		alpha terpineol	0	ug/L	6.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Acenaphthylene	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Acenaphthene	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		4-Nitrophenol	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Diethyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Fluorene	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		2,4,6-Tribromophenol	34.6	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Pentachlorophenol	0	ug/L	6.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		n-octadecane	0	ug/L	6.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Phenanthrene	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Anthracene	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		carbazole	0	ug/L	6.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Fluoranthene	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Benzidine	0	ug/L	6.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Pyrene	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Chrysene	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Perylene-D12	50.0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Hexachloroethane	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		2,3-Dichloroaniline	0	ug/L	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Diethylphthalate	0	ug/L	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Benzo[ghi]perylene	0	ug/L	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		1-Butene, 3,3-dimethyl- T	3	ug/L	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		6,6-Dimethyl-cyclohex-2-en-1-ol T	3	ug/L	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		2-Hexene, 2,5,5-trimethyl- T	13	ug/L	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		2-Hexene, 3,5,5-trimethyl- T	4	ug/L	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		1-(1-Methyl-cyclopentyl)-ethanone T	3	ug/L	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	5	ug/L	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		3,6,6-Trimethyl-cyclohex-2-enol T	4	ug/L	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Decane, 3,3,4-trimethyl- T	16	ug/L	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		1,3-Cyclobutanedione, 2,2,4,4-tetramet T	3	ug/L	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		Di-iso-amyl oxalate T	4	ug/L	
AC08512	LM79	Little Miami Watershed	79	10/12/2012	10:00	\$625		TOTAL AMOUNT	596	ug/L	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45		MF_CF	Fecal Coliform, Membrane Filter	1400	CFU/100mL	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45		E-COLI	E.coli (Colilert)	1414	MPN	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45		TDS	Total Dissolved Solids	460	mg/L	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45		SO4	Sulfate	74.0	mg/L	25.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45		CL	Chloride	93.1	mg/L	1.00
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45		TSS	Tot. Suspended Solids	34	mg/L	2
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45		SSC	Suspended Sediment Concentration	18.2	mg/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45		HARD	Hardness as CaCO3	250	mg/l	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45		COD	COD	15	mg/L	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	620	uS/cm	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45		TEMP_FLD	Temperature (Field) Celsius	15.54	Deg C	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45		PH_FLD	pH (Field)	8.44	S.U.	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45		DO_FLD	Dissolved Oxygen (field) mg/L	13.89	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	756	uS/cm	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$ICP	Aluminum	0.450	mg/L	0.348
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$ICP	Antimony	0.000	mg/L	0.006
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$ICP	Arsenic	0.000	mg/L	0.012
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$ICP	Barium	0.056	mg/L	0.003
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$ICP	Beryllium	0.000	mg/L	0.009
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$ICP	Cadmium	0.000	mg/L	0.012
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$ICP	Calcium	67.095	mg/L	0.066
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$ICP	Chromium	0.000	mg/L	0.006
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$ICP	Cobalt	0.000	mg/L	0.006
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$ICP	Copper	0.008	mg/L	0.006
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$ICP	Iron	0.705	mg/L	0.018
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$ICP	Lead	0.000	mg/L	0.006
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$ICP	Magnesium	22.711	mg/L	0.021
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$ICP	Manganese	0.042	mg/L	0.009
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$ICP	Nickel	0.000	mg/L	0.003
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$ICP	Selenium	0.026	mg/L	0.009
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$ICP	Silver	0.000	mg/L	0.003
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$ICP	Strontium	0.288	mg/L	0.009
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$ICP	Thallium	0.013	mg/L	0.012
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$ICP	Tin	0.000	mg/L	0.006
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$ICP	Vanadium	0.000	mg/L	0.018
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$ICP	Zinc	0.016	mg/L	0.006
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	PB_FU	Lead by Furnace	0.87	ug/L	0.5
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	AS_FU	Arsenic by Furnace	1.18	ug/L	1.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	CU_FU	Copper by Furnace	4.7	ug/L	1
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	NH3	Ammonia as N	0	mg/L	0.5
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	NO3NO2	Nitrate + Nitrite	1.93	mg/L	0.5
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	TKN	Total Kjeldahl Nitrogen	0.7577	mg/L	0.5
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	NO2	Nitrite as N	0.0082	mg/l	0.005
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	NO3	Nitrate as N (calculated)	1.9218	mg/l	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	CHLOROPHYLL	Chlorophyll	4.27	mg/m3	1.00
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	Aldrin	AA	ug/L	.02
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	Beta-BHC	AA	ug/L	.02
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	Delta-BHC	AA	ug/L	.02
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	Chlordane	AA	ug/L	0.1
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	4,4-DDD	AA	ug/L	.02
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	4,4-DDT	AA	ug/L	.03
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	4,4-DDE	AA	ug/L	.02
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	Dieldrin	AA	ug/L	.02
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	Endosulfan I	AA	ug/L	.05
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	Endosulfan II	AA	ug/L	.02
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	Endrin	AA	ug/L	.02
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	Heptachlor	AA	ug/L	.05
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	Heptachlor epoxide	AA	ug/L	1.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	Toxaphene	AA	ug/L	0.5
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	PCB 1016	AA	ug/L	0.5
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	PCB 1221	AA	ug/L	0.5
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	PCB 1232	AA	ug/L	0.5
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	PCB 1242	AA	ug/L	0.5
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	PCB 1248	AA	ug/L	0.5
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	PCB 1254	AA	ug/L	0.5
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	PCB 1260	AA	ug/L	0.5
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	Surr: Decachlorobiphenyl	90	%	11
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$PEST	Surr: Tetrachloro-m-xylene	93	%	48
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Bromochloromethane	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Chloromethane	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Vinyl Chloride	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Bromomethane	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Chloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Acrolein	0	ug/L	100.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Acrylonitrile	0	ug/L	100.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Methylene Chloride	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Chloroform	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Benzene	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Trichloroethene	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Bromodichloromethane	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Dibromochloromethane	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Bromoform	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Tetrachloroethene	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Toluene	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Toluene-d8	99	ug/L	81
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Chlorobenzene	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Ethylbenzene	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	1,4-Dichlorobenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	2-Propanone	0	ug/L	60
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	2-Butanone	0	ug/L	60
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	Dibromofluoromethane (S)	105	ug/L	83
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$624	4-Bromofluorobenzene (S)	98	ug/L	72
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	pyridine	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	2-Fluorophenol	30.7	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	aniline	0	ug/L	6.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Phenol-d6	24.2	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Phenol	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	2-Chlorophenol	0	ug/L	6.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	n-decane	0	ug/L	6.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	o-cresol	0	ug/L	6.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	acetophenone	0	ug/L	6.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Hexachloroethane	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Nitrobenzene-d5	71.4	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	p-cresol	0	ug/L	6.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Nitrobenzene	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Isophorone	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Decafluorobiphenyl	51.8	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	2-Nitrophenol	0	ug/L	6.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Naphthalene	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	1-Fluoronaphthalene	62.0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	alpha terpineol	0	ug/L	6.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Acenaphthylene	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Acenaphthene	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	4-Nitrophenol	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Diethyl phthalate	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Fluorene	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	2,4,6-Tribromophenol	60.1	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Pentachlorophenol	0	ug/L	6.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	n-octadecane	0	ug/L	6.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Phenanthrene	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Anthracene	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	carbazole	0	ug/L	6.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Fluoranthene	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Chrysene-d12	50.0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Benzidine	0	ug/L	6.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Pyrene	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Chrysene	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Perylene-D12	50.0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Hexachloroethane	0	ug/L	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	2,3-Dichloroaniline	0	ug/L	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Diethylphthalate	0	ug/L	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Benzo[ghi]perylene	0	ug/L	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	2-Undecene, 3-methyl-, (Z)- T	4	ug/L	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	2-Hexene, 2,5,5-trimethyl- T	18	ug/L	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	2-Hexene, 2,5,5-trimethyl- T2	5	ug/L	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	5-Methyl-1-heptanol T	4	ug/L	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	20	ug/L	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	5	ug/L	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	1-Hexene, 3,4,5-trimethyl- T	4	ug/L	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Pentane, 2,3,4-trimethyl- T	21	ug/L	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Octane, 3-methyl-6-methylene- T	3	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	Pentane, 2,3,4-trimethyl- T2	5	ug/L	
AC08562	LM08	Little Miami Watershed	8 (3261-06)	10/15/2012	12:45	\$625	TOTAL AMOUNT	689	ug/L	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	MF_CF	Fecal Coliform, Membrane Filter	833	CFU/100mL	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	E-COLI	E.coli (Colilert)	1046	MPN	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	TDS	Total Dissolved Solids	400	mg/L	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	SO4	Sulfate	41.5	mg/L	12.5
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	CL	Chloride	93.6	mg/L	1.00
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	TSS	Tot. Suspended Solids	14	mg/L	2
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	SSC	Suspended Sediment Concentration	24.2	mg/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	HARD	Hardness as CaCO3	266	mg/l	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	COD	COD	5	mg/L	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	621	uS/cm	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	TEMP_FLD	Temperature (Field) Celsius	15.18	Deg C	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	PH_FLD	pH (Field)	8.23	S.U.	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	DO_FLD	Dissolved Oxygen (field) mg/L	11.31	mg/l	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	764	uS/cm	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$ICP	Aluminum	0.613	mg/L	0.348
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$ICP	Antimony	0.000	mg/L	0.006
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$ICP	Arsenic	0.000	mg/L	0.012
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$ICP	Barium	0.060	mg/L	0.003
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$ICP	Beryllium	0.000	mg/L	0.009
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$ICP	Cadmium	0.000	mg/L	0.012
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$ICP	Calcium	68.899	mg/L	0.066
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$ICP	Chromium	0.000	mg/L	0.006
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$ICP	Cobalt	0.000	mg/L	0.006
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$ICP	Copper	0.006	mg/L	0.006
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$ICP	Iron	0.950	mg/L	0.018
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$ICP	Lead	0.000	mg/L	0.006
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$ICP	Magnesium	24.214	mg/L	0.021
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$ICP	Manganese	0.050	mg/L	0.009
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$ICP	Nickel	0.000	mg/L	0.003
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$ICP	Selenium	0.019	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$ICP	Silver	0.000	mg/L	0.003
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$ICP	Strontium	0.286	mg/L	0.009
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$ICP	Thallium	0.000	mg/L	0.012
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$ICP	Tin	0.000	mg/L	0.006
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$ICP	Vanadium	0.000	mg/L	0.018
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$ICP	Zinc	0.009	mg/L	0.006
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	PB_FU	Lead by Furnace	1.05	ug/L	0.5
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	AS_FU	Arsenic by Furnace	1.10	ug/L	1.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	CU_FU	Copper by Furnace	3.6	ug/L	1
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	NH3	Ammonia as N	0	mg/L	0.5
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	NO3NO2	Nitrate + Nitrite	2.01	mg/L	0.5
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	TKN	Total Kjeldahl Nitrogen	0.7051	mg/L	0.5
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	NO2	Nitrite as N	0.0098	mg/l	0.005
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	NO3	Nitrate as N (calculated)	2.0002	mg/l	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	CHLOROPHYLL	Chlorophyll	1.69	mg/m3	1.00
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	Aldrin	AA	ug/L	.02
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	Beta-BHC	AA	ug/L	.02
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	Delta-BHC	AA	ug/L	.02
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	Chlordane	AA	ug/L	0.1
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	4,4-DDD	AA	ug/L	.02
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	4,4-DDT	AA	ug/L	.03
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	4,4-DDE	AA	ug/L	.02
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	Dieldrin	AA	ug/L	.02
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	Endosulfan I	AA	ug/L	.05
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	Endosulfan II	AA	ug/L	.02
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	Endrin	AA	ug/L	.02
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	Heptachlor	AA	ug/L	.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	Toxaphene	AA	ug/L	1
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	Surr: Decachlorobiphenyl	94	%	.0942
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$PEST	Surr: Tetrachloro-m-xylene	97	%	.0967
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624	Bromochloromethane	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624	Chloromethane	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624	Bromomethane	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624	Chloroethane	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624	Acrolein	0	ug/L	100.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624	Acrylonitrile	0	ug/L	100.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624	Methylene Chloride	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624	Chloroform	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624	Benzene	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624	Trichloroethene	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624	1,2-Dichloropropane	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624		Bromoform	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624		Toluene	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624		Toluene-d8	100	ug/L	81
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624		Chlorobenzene	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624		Ethylbenzene	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624		2-Propanone	0	ug/L	60
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624		2-Butanone	0	ug/L	60
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624		Dibromofluoromethane (S)	105	ug/L	83
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$624		4-Bromofluorobenzene (S)	100	ug/L	72
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625		pyridine	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625		2-Fluorophenol	8.3	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625		aniline	0	ug/L	6.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625		Phenol-d6	7.6	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625		Phenol	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625		n-decane	0	ug/L	6.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625		o-cresol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	acetophenone	0	ug/L	6.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Hexachloroethane	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Nitrobenzene-d5	28.2	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	p-cresol	0	ug/L	6.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Nitrobenzene	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Isophorone	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Decafluorobiphenyl	26.8	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	2-Nitrophenol	0	ug/L	6.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Naphthalene	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	1-Fluoronaphthalene	26.5	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	alpha terpineol	0	ug/L	6.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Acenaphthylene	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Acenaphthene	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	4-Nitrophenol	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Diethyl phthalate	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Fluorene	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	2,4,6-Tribromophenol	19.5	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Pentachlorophenol	0	ug/L	6.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	n-octadecane	0	ug/L	6.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Phenanthrene	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Anthracene	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	carbazole	0	ug/L	6.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Fluoranthene	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Benzidine	0	ug/L	6.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Pyrene	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Chrysene	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Perylene-D12	50.0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Hexachloroethane	0	ug/L	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	2,3-Dichloroaniline	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Diethylphthalate	0	ug/L	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Benzo[ghi]perylene	0	ug/L	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	2-Pentene, 4-methyl-, (E)- T	4	ug/L	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	2-Hexene, 2,5,5-trimethyl- T	6	ug/L	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	2-Hexene, 3,5,5-trimethyl- T	2	ug/L	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	2-Pentene, 4-methyl-, (E)- T2	3	ug/L	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Phenol, 2-fluoro- T	8	ug/L	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Ethane, 1,1,2,2-tetrachloro- T	2	ug/L	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Pentane, 2,3,4-trimethyl- T	8	ug/L	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	Pentane, 2,3,4-trimethyl- T2	2	ug/L	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	trans-4-Hydroxy-3-methyldecanoic acid T	7	ug/L	
AC08563	LM06	Little Miami Watershed	6 (3261-07)	10/15/2012	12:30	\$625	TOTAL AMOUNT	459	ug/L	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	MF_CF	Fecal Coliform, Membrane Filter	240	CFU/100mL	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	E-COLI	E.coli (Colilert)	225	MPN	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	TDS	Total Dissolved Solids	480	mg/L	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	SO4	Sulfate	47.2	mg/L	12.5
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	CL	Chloride	11.2	mg/L	1.00
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	TSS	Tot. Suspended Solids	14	mg/L	2
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	SSC	Suspended Sediment Concentration	96.4	mg/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	HARD	Hardness as CaCO3	298	mg/l	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	COD	COD	5	mg/L	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	652	uS/cm	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	TEMP_FLD	Temperature (Field) Celsius	14.92	Deg C	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	PH_FLD	pH (Field)	8.53	S.U.	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	DO_FLD	Dissolved Oxygen (field) mg/L	14.9	mg/l	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	807	uS/cm	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$ICP	Aluminum	0.000	mg/L	0.348

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$ICP	Antimony	0.000	mg/L	0.006
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$ICP	Arsenic	0.000	mg/L	0.012
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$ICP	Barium	0.062	mg/L	0.003
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$ICP	Beryllium	0.000	mg/L	0.009
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$ICP	Cadmium	0.000	mg/L	0.012
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$ICP	Calcium	70.147	mg/L	0.066
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$ICP	Chromium	0.000	mg/L	0.006
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$ICP	Cobalt	0.000	mg/L	0.006
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$ICP	Copper	0.000	mg/L	0.006
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$ICP	Iron	0.377	mg/L	0.018
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$ICP	Lead	0.000	mg/L	0.006
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$ICP	Magnesium	25.560	mg/L	0.021
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$ICP	Manganese	0.024	mg/L	0.009
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$ICP	Nickel	0.000	mg/L	0.003
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$ICP	Selenium	0.031	mg/L	0.009
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$ICP	Silver	0.000	mg/L	0.003
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$ICP	Strontium	0.305	mg/L	0.009
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$ICP	Thallium	0.014	mg/L	0.012
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$ICP	Tin	0.000	mg/L	0.006
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$ICP	Vanadium	0.000	mg/L	0.018
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$ICP	Zinc	0.007	mg/L	0.006
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	PB_FU	Lead by Furnace	0.43	ug/L	0.5
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	AS_FU	Arsenic by Furnace	1.07	ug/L	1.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	CU_FU	Copper by Furnace	2.9	ug/L	1
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	NH3	Ammonia as N	0	mg/L	0.5
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	NO3NO2	Nitrate + Nitrite	2.24	mg/L	0.5
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	NO2	Nitrite as N	0.0093	mg/l	0.005
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	NO3	Nitrate as N (calculated)	2.2307	mg/l	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	Aldrin	AA	ug/L	.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	Beta-BHC	AA	ug/L	.02
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	Delta-BHC	AA	ug/L	.02
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	Chlordane	AA	ug/L	0.1
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	4,4-DDD	AA	ug/L	.02
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	4,4-DDT	AA	ug/L	.03
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	4,4-DDE	AA	ug/L	.02
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	Dieldrin	AA	ug/L	.02
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	Endosulfan I	AA	ug/L	.05
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	Endosulfan II	AA	ug/L	.02
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	Endrin	AA	ug/L	.02
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	Heptachlor	AA	ug/L	.02
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	Toxaphene	AA	ug/L	1
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	PCB 1016	AA	ug/L	0.5
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	PCB 1221	AA	ug/L	0.5
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	PCB 1232	AA	ug/L	0.5
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	PCB 1242	AA	ug/L	0.5
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	PCB 1248	AA	ug/L	0.5
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	PCB 1254	AA	ug/L	0.5
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	PCB 1260	AA	ug/L	0.5
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	Surr: Decachlorobiphenyl	110	%	1.10
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$PEST	Surr: Tetrachloro-m-xylene	101	%	1.01
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624	Bromochloromethane	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624	Chloromethane	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624	Vinyl Chloride	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624	Bromomethane	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624	Chloroethane	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624	Acrolein	0	ug/L	100.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		Acrylonitrile	0	ug/L	100.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		Methylene Chloride	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		Chloroform	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		Benzene	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		Trichloroethene	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		Bromodichloromethane	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		Dibromochloromethane	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		Bromoform	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		Tetrachloroethene	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		Toluene	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		Toluene-d8	98	ug/L	81
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		Chlorobenzene	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		Ethylbenzene	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624		2-Propanone	0	ug/L	60

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624	2-Butanone	0	ug/L	60
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624	Dibromofluoromethane (S)	106	ug/L	83
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$624	4-Bromofluorobenzene (S)	100	ug/L	72
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	pyridine	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	2-Fluorophenol	30.4	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	aniline	0	ug/L	6.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Phenol-d6	20.2	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Phenol	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	2-Chlorophenol	0	ug/L	6.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	n-decane	0	ug/L	6.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	o-cresol	0	ug/L	6.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	acetophenone	0	ug/L	6.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Hexachloroethane	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Nitrobenzene-d5	66.2	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	p-cresol	0	ug/L	6.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Nitrobenzene	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Isophorone	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Decafluorobiphenyl	62.0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	2-Nitrophenol	0	ug/L	6.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Naphthalene	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	1-Fluoronaphthalene	64.0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	alpha terpineol	0	ug/L	6.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Hexachlorobutadiene	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Acenaphthylene	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Acenaphthene	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	4-Nitrophenol	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Diethyl phthalate	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Fluorene	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	2,4,6-Tribromophenol	76.2	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Pentachlorophenol	0	ug/L	6.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	n-octadecane	0	ug/L	6.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Phenanthrene	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Anthracene	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	carbazole	0	ug/L	6.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Fluoranthene	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Benzidine	0	ug/L	6.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Pyrene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Chrysene	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Perylene-D12	50.0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Hexachloroethane	0	ug/L	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	2,3-Dichloroaniline	0	ug/L	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Diethylphthalate	0	ug/L	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Benzo[ghi]perylene	0	ug/L	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	2,5-Cyclohexadien-1-one, 3,5-dihydroxy T	3	ug/L	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	2-Hexene, 2,5,5-trimethyl- T	13	ug/L	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	2-Hexene, 3,5,5-trimethyl- T	4	ug/L	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	1-Silacyclo-3-pentene T	3	ug/L	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	16	ug/L	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	3-Ethyl-2-methyl-1-heptene T	4	ug/L	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Borane, diethyl[1-ethyl-2-(methoxymeth) T	3	ug/L	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Decane, 3,3,4-trimethyl- T	18	ug/L	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	1-Octene, 3-ethyl- T	3	ug/L	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	Pentane, 2,3,4-trimethyl- T	4	ug/L	
AC08564	LM05	Little Miami Watershed	5 (3261-08)	10/15/2012	12:10	\$625	TOTAL AMOUNT	689	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	MF_CF	Fecal Coliform, Membrane Filter	107	CFU/100mL	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	E-COLI	E.coli (Colilert)	96	MPN	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	TDS	Total Dissolved Solids	450	mg/L	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	SO4	Sulfate	47.5	mg/L	12.5
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	CL	Chloride	98.5	mg/L	1.00
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	TSS	Tot. Suspended Solids	18	mg/L	2
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	SSC	Suspended Sediment Concentration	5.7	mg/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	HARD	Hardness as CaCO3	292	mg/l	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	COD	COD	13	mg/L	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	665	uS/cm	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	TEMP_FLD	Temperature (Field) Celsius	15.08	Deg C	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	PH_FLD	pH (Field)	8.48	S.U.	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	DO_FLD	Dissolved Oxygen (field) mg/L	13.1	mg/l	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	820	uS/cm	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$ICP	Aluminum	0.000	mg/L	0.348
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$ICP	Antimony	0.000	mg/L	0.006
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$ICP	Arsenic	0.000	mg/L	0.012
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$ICP	Barium	0.066	mg/L	0.003
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$ICP	Beryllium	0.000	mg/L	0.009
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$ICP	Cadmium	0.000	mg/L	0.012
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$ICP	Calcium	77.289	mg/L	0.066
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$ICP	Chromium	0.000	mg/L	0.006
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$ICP	Cobalt	0.000	mg/L	0.006
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$ICP	Copper	0.000	mg/L	0.006
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$ICP	Iron	0.220	mg/L	0.018
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$ICP	Lead	0.000	mg/L	0.006
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$ICP	Magnesium	28.807	mg/L	0.021
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$ICP	Manganese	0.015	mg/L	0.009
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$ICP	Nickel	0.000	mg/L	0.003
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$ICP	Selenium	0.019	mg/L	0.009
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$ICP	Silver	0.000	mg/L	0.003
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$ICP	Strontium	0.320	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$ICP	Thallium	0.000	mg/L	0.012
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$ICP	Tin	0.000	mg/L	0.006
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$ICP	Vanadium	0.000	mg/L	0.018
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$ICP	Zinc	0.000	mg/L	0.006
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	PB_FU	Lead by Furnace	0.26	ug/L	0.5
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	AS_FU	Arsenic by Furnace	0.78	ug/L	1.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	CU_FU	Copper by Furnace	2.2	ug/L	1
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	NH3	Ammonia as N	0	mg/L	0.5
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	NO3NO2	Nitrate + Nitrite	1.74	mg/L	0.5
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	NO2	Nitrite as N	0.0094	mg/l	0.005
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	NO3	Nitrate as N (calculated)	1.7306	mg/l	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	Aldrin	AA	ug/L	.02
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	Beta-BHC	AA	ug/L	.02
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	Delta-BHC	AA	ug/L	.02
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	Chlordane	AA	ug/L	.1
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	4,4-DDD	AA	ug/L	.02
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	4,4-DDT	AA	ug/L	.03
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	4,4-DDE	AA	ug/L	.02
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	Dieldrin	AA	ug/L	.02
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	Endosulfan I	AA	ug/L	.05
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	Endosulfan II	AA	ug/L	.02
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	Endrin	AA	ug/L	.02
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	Heptachlor	AA	ug/L	.02
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	Toxaphene	AA	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	PCB 1016	AA	ug/L	0.5
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	PCB 1221	AA	ug/L	0.5
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	PCB 1232	AA	ug/L	0.5
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	PCB 1242	AA	ug/L	0.5
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	PCB 1248	AA	ug/L	0.5
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	PCB 1254	AA	ug/L	0.5
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	PCB 1260	AA	ug/L	0.5
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	Surr: Decachlorobiphenyl	87	%	.874
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$PEST	Surr: Tetrachloro-m-xylene	96	%	0.958
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Bromochloromethane	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Chloromethane	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Vinyl Chloride	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Bromomethane	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Chloroethane	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Acrolein	0	ug/L	100.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Acrylonitrile	0	ug/L	100.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Methylene Chloride	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Chloroform	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Benzene	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Trichloroethene	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Bromodichloromethane	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Dibromochloromethane	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Bromoform	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Tetrachloroethene	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Toluene	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Toluene-d8	99	ug/L	81
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Chlorobenzene	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Ethylbenzene	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	2-Propanone	0	ug/L	60
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	2-Butanone	0	ug/L	60
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	Dibromofluoromethane (S)	104	ug/L	83
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$624	4-Bromofluorobenzene (S)	99	ug/L	72
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	pyridine	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	2-Fluorophenol	14.7	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	aniline	0	ug/L	6.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Phenol-d6	11.6	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Phenol	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	2-Chlorophenol	0	ug/L	6.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	n-decane	0	ug/L	6.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	o-cresol	0	ug/L	6.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	acetophenone	0	ug/L	6.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Hexachloroethane	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Nitrobenzene-d5	47.3	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	p-cresol	0	ug/L	6.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Nitrobenzene	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Isophorone	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Decafluorobiphenyl	39.2	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	2-Nitrophenol	0	ug/L	6.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Naphthalene	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	1-Fluoronaphthalene	43.6	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	alpha terpineol	0	ug/L	6.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Acenaphthylene	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Acenaphthene	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	4-Nitrophenol	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Diethyl phthalate	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Fluorene	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Phenanthrene-D10	50.0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	2,4,6-Tribromophenol	27.6	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Pentachlorophenol	0	ug/L	6.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	n-octadecane	0	ug/L	6.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Phenanthrene	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Anthracene	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	carbazole	0	ug/L	6.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Fluoranthene	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Benzidine	0	ug/L	6.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Pyrene	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Chrysene	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Perylene-D12	50.0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Hexachloroethane	0	ug/L	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	2,3-Dichloroaniline	0	ug/L	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Diethylphthalate	0	ug/L	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625		Benzo[ghi]perylene	0	ug/L	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625		2,5-Cyclohexadien-1-one, 3,5-dihydroxy T	3	ug/L	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625		2-Hexene, 2,5,5-trimethyl- T	13	ug/L	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625		2-Hexene, 3,5,5-trimethyl- T	4	ug/L	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625		1-(1-Methyl-cyclopentyl)-ethanone T	3	ug/L	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625		2-Butenal, 3-methyl- T	4	ug/L	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625		Ethane, 1,1,2,2-tetrachloro- T	2	ug/L	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625		Undecane, 3,3-dimethyl- T	3	ug/L	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625		Decane, 3,3,4-trimethyl- T	15	ug/L	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625		Octane, 3-methyl-6-methylene- T	3	ug/L	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625		Pentane, 2,3,4-trimethyl- T	4	ug/L	
AC08565	LM02	Little Miami Watershed	2 (3261-09)	10/15/2012	11:45	\$625		TOTAL AMOUNT	538	ug/L	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30		MF_CF	Fecal Coliform, Membrane Filter	193	CFU/100mL	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30		E-COLI	E.coli (Colilert)	146	MPN	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30		TDS	Total Dissolved Solids	530	mg/L	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30		SO4	Sulfate	47.5	mg/L	12.5
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30		CL	Chloride	96.6	mg/L	1.00
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30		TSS	Tot. Suspended Solids	8	mg/L	2
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30		SSC	Suspended Sediment Concentration	8.1	mg/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30		HARD	Hardness as CaCO3	282	mg/l	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30		COD	COD	15	mg/L	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	653	uS/cm	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30		TEMP_FLD	Temperature (Field) Celsius	14.72	Deg C	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30		PH_FLD	pH (Field)	8.38	S.U.	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30		DO_FLD	Dissolved Oxygen (field) mg/L	12.15	mg/l	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30		CONDUCTIVITY	Specific Conductivity (uS/cm)	813	uS/cm	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30		\$ICP	Aluminum	0.000	mg/L	0.348
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30		\$ICP	Antimony	0.000	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$ICP	Arsenic	0.000	mg/L	0.012
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$ICP	Barium	0.066	mg/L	0.003
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$ICP	Beryllium	0.000	mg/L	0.009
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$ICP	Cadmium	0.000	mg/L	0.012
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$ICP	Calcium	73.286	mg/L	0.066
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$ICP	Chromium	0.000	mg/L	0.006
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$ICP	Cobalt	0.000	mg/L	0.006
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$ICP	Copper	0.008	mg/L	0.006
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$ICP	Iron	0.305	mg/L	0.018
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$ICP	Lead	0.000	mg/L	0.006
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$ICP	Magnesium	27.212	mg/L	0.021
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$ICP	Manganese	0.022	mg/L	0.009
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$ICP	Nickel	0.000	mg/L	0.003
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$ICP	Selenium	0.022	mg/L	0.009
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$ICP	Silver	0.000	mg/L	0.003
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$ICP	Strontium	0.327	mg/L	0.009
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$ICP	Thallium	0.000	mg/L	0.012
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$ICP	Tin	0.000	mg/L	0.006
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$ICP	Vanadium	0.000	mg/L	0.018
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$ICP	Zinc	0.008	mg/L	0.006
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	PB_FU	Lead by Furnace	0.34	ug/L	0.5
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	AS_FU	Arsenic by Furnace	1.07	ug/L	1.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	CU_FU	Copper by Furnace	2.7	ug/L	1
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	NO3NO2	Nitrate + Nitrite	2.32	mg/L	0.5
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	NO2	Nitrite as N	0.0091	mg/l	0.005
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	NO3	Nitrate as N (calculated)	2.3109	mg/l	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	Aldrin	AA	ug/L	.02
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	Alpha-BHC	AA	ug/L	.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	Beta-BHC	AA	ug/L	.02
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	Delta-BHC	AA	ug/L	.02
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	Chlordane	AA	ug/L	0.1
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	4,4-DDD	AA	ug/L	.02
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	4,4-DDT	AA	ug/L	.03
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	4,4-DDE	AA	ug/L	.02
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	Dieldrin	AA	ug/L	.02
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	Endosulfan I	AA	ug/L	.05
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	Endosulfan II	AA	ug/L	.02
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	Endrin	AA	ug/L	.02
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	Heptachlor	AA	ug/L	.02
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	Toxaphene	AA	ug/L	1
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	Surr: Decachlorobiphenyl	85	%	0.855
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$PEST	Surr: Tetrachloro-m-xylene	100	%	1.00
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624	Bromochloromethane	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624	Chloromethane	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624	Bromomethane	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624	Chloroethane	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624	Acrolein	0	ug/L	100.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624	1,1-Dichloroethene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		Acrylonitrile	0	ug/L	100.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		Methylene Chloride	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		Chloroform	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		Benzene	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		Trichloroethene	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		Bromoform	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		Toluene	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		Toluene-d8	98	ug/L	81
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		Chlorobenzene	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		Ethylbenzene	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		2-Propanone	0	ug/L	60
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		2-Butanone	0	ug/L	60

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		Dibromofluoromethane (S)	109	ug/L	83
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$624		4-Bromofluorobenzene (S)	100	ug/L	72
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		pyridine	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		2-Fluorophenol	22.7	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		aniline	0	ug/L	6.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Phenol-d6	16.0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Phenol	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		n-decane	0	ug/L	6.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		o-cresol	0	ug/L	6.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		acetophenone	0	ug/L	6.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Hexachloroethane	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Nitrobenzene-d5	59.2	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		p-cresol	0	ug/L	6.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Nitrobenzene	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Isophorone	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Decafluorobiphenyl	43.2	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Naphthalene	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		1-Fluoronaphthalene	55.0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		alpha terpineol	0	ug/L	6.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Acenaphthylene	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Acenaphthene	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		4-Nitrophenol	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Diethyl phthalate	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Fluorene	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		2,4,6-Tribromophenol	38.8	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Pentachlorophenol	0	ug/L	6.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		n-octadecane	0	ug/L	6.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Phenanthrene	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Anthracene	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		carbazole	0	ug/L	6.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Fluoranthene	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Benzidine	0	ug/L	6.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Pyrene	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Chrysene	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Hexachloroethane	0	ug/L	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Diethylphthalate	0	ug/L	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Hexane, 1-(hexyloxy)-4-methyl- T	4	ug/L	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		2-Hexene, 2,5,5-trimethyl- T	15	ug/L	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		2-Hexene, 3,5,5-trimethyl- T	5	ug/L	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		1-(1-Methyl-cyclopentyl)-ethanone T	4	ug/L	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	4	ug/L	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Carbonic acid, dipentyl ester T	3	ug/L	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Pentane, 2,3,4-trimethyl- T	16	ug/L	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Decane, 3,3,4-trimethyl- T	4	ug/L	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Propanoic acid, 2-methyl-, 2,2-dimethyl T	7	ug/L	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		Butanoic acid, butyl ester T	9	ug/L	
AC08566	LM03	Little Miami Watershed	3	10/15/2012	11:30	\$625		TOTAL AMOUNT	606	ug/L	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	MF_CF		Fecal Coliform, Membrane Filter	14	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	E-COLI	E.coli (Colilert)	32	MPN	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	TDS	Total Dissolved Solids	690	mg/L	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	BOD	Biochemical Oxygen Demand	4	mg/L	2
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	SO4	Sulfate	89.0	mg/L	12.5
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	CL	Chloride	201	mg/L	4.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	TSS	Tot. Suspended Solids	8	mg/L	2
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	SSC	Suspended Sediment Concentration	5.1	mg/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	HARD	Hardness as CaCO3	268	mg/l	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	COD	COD	25	mg/L	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	654	uS/cm	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	TEMP_FLD	Temperature (Field) Celsius	20.66	Deg C	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	PH_FLD	pH (Field)	7.39	S.U.	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	DO_FLD	Dissolved Oxygen (field) mg/L	10.40	mg/l	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	713	uS/cm	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$ICP	Aluminum	0.000	mg/L	0.348
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$ICP	Antimony	0.000	mg/L	0.006
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$ICP	Arsenic	0.000	mg/L	0.012
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$ICP	Barium	0.024	mg/L	0.003
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$ICP	Beryllium	0.000	mg/L	0.009
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$ICP	Cadmium	0.000	mg/L	0.012
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$ICP	Calcium	69.473	mg/L	0.066
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$ICP	Chromium	0.000	mg/L	0.006
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$ICP	Cobalt	0.000	mg/L	0.006
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$ICP	Copper	0.016	mg/L	0.006
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$ICP	Iron	0.325	mg/L	0.018
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$ICP	Lead	0.000	mg/L	0.006
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$ICP	Magnesium	22.571	mg/L	0.021
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$ICP	Manganese	0.022	mg/L	0.009
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$ICP	Nickel	0.003	mg/L	0.003
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$ICP	Selenium	0.023	mg/L	0.009
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$ICP	Silver	0.000	mg/L	0.003
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$ICP	Strontium	0.354	mg/L	0.009
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$ICP	Thallium	0.000	mg/L	0.012



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$ICP	Tin	0.000	mg/L	0.006
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$ICP	Vanadium	0.000	mg/L	0.018
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$ICP	Zinc	0.023	mg/L	0.006
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	PB_FU	Lead by Furnace	0.15	ug/L	0.5
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	AS_FU	Arsenic by Furnace	0.42	ug/L	1.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	CU_FU	Copper by Furnace	9.6	ug/L	1
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	NH3	Ammonia as N	0	mg/L	0.5
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	NO3NO2	Nitrate + Nitrite	11.4	mg/L	0.5
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	TKP	Total Kjeldahl Phosphorus	0.7136	mg/L	0.5
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	NO2	Nitrite as N	0.0827	mg/l	0.005
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	NO3	Nitrate as N (calculated)	11.3173	mg/l	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	Aldrin	AA	ug/L	.02
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	Beta-BHC	AA	ug/L	.02
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	Delta-BHC	AA	ug/L	.02
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	Chlordane	AA	ug/L	0.1
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	4,4-DDD	AA	ug/L	.02
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	4,4-DDT	AA	ug/L	.03
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	4,4-DDE	AA	ug/L	.02
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	Dieldrin	AA	ug/L	.02
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	Endosulfan I	AA	ug/L	.05
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	Endosulfan II	AA	ug/L	.02
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	Endrin	AA	ug/L	.02
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	Heptachlor	AA	ug/L	.02
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	Toxaphene	AA	ug/L	1
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	PCB 1016	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	PCB 1221	AA	ug/L	0.5
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	PCB 1232	AA	ug/L	0.5
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	PCB 1242	AA	ug/L	0.5
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	PCB 1248	AA	ug/L	0.5
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	PCB 1254	AA	ug/L	0.5
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	PCB 1260	AA	ug/L	0.5
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	Surr: Decachlorobiphenyl	95	%	0.951
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$PEST	Surr: Tetrachloro-m-xylene	112	%	1.12
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	Bromochloromethane	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	Chloromethane	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	Vinyl Chloride	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	Bromomethane	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	Chloroethane	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	Acrolein	0	ug/L	100.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	Acrylonitrile	0	ug/L	100.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	Methylene Chloride	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	Chloroform	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	Benzene	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	Trichloroethene	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	Bromodichloromethane	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624		Dibromochloromethane	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624		Bromoform	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624		Tetrachloroethene	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624		Toluene	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624		Toluene-d8	99	ug/L	81
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624		Chlorobenzene	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624		Ethylbenzene	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624		2-Propanone	0	ug/L	60
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624		2-Butanone	0	ug/L	60
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624		Dibromofluoromethane (S)	108	ug/L	83
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$624		4-Bromofluorobenzene (S)	99	ug/L	72
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		pyridine	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		2-Fluorophenol	19.6	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		aniline	0	ug/L	6.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Phenol-d6	16.2	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Phenol	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		2-Chlorophenol	0	ug/L	6.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		n-decane	0	ug/L	6.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		o-cresol	0	ug/L	6.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		acetophenone	0	ug/L	6.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Hexachloroethane	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Nitrobenzene-d5	53.1	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		p-cresol	0	ug/L	6.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Nitrobenzene	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Isophorone	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Decafluorobiphenyl	51.7	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		2-Nitrophenol	0	ug/L	6.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Naphthalene	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		1-Fluoronaphthalene	53.1	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		alpha terpineol	0	ug/L	6.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Acenaphthylene	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Acenaphthene	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		4-Nitrophenol	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Diethyl phthalate	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Fluorene	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	2,4,6-Tribromophenol	28.6	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Pentachlorophenol	0	ug/L	6.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	n-octadecane	0	ug/L	6.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Phenanthrene	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Anthracene	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	carbazole	0	ug/L	6.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Fluoranthene	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Benzidine	0	ug/L	6.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Pyrene	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Chrysene	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Perylene-D12	50.0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Hexachloroethane	0	ug/L	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	2,3-Dichloroaniline	0	ug/L	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Diethylphthalate	0	ug/L	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625	Benzo[b]fluoranthene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Benzo[ghi]perylene	0	ug/L	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		2-Undecene, 3-methyl-, (Z)- T	4	ug/L	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		2-Hexene, 2,5,5-trimethyl- T	20	ug/L	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		2-Hexene, 3,5,5-trimethyl- T	6	ug/L	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		1-Silacyclo-3-pentene T	4	ug/L	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	5	ug/L	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Borane, diethyl[1-ethyl-2-(methoxymeth T	4	ug/L	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Pentane, 2,3,4-trimethyl- T	21	ug/L	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Octane, 3-methyl-6-methylene- T	3	ug/L	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		Pentane, 2,3,4-trimethyl- T2	5	ug/L	
AC08567	LM04	Little Miami Watershed	4	10/15/2012	11:20	\$625		TOTAL AMOUNT	593	ug/L	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15		MF_CF	Fecal Coliform, Membrane Filter	107	CFU/100mL	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15		E-COLI	E.coli (Colilert)	63	MPN	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15		TDS	Total Dissolved Solids	660	mg/L	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15		SO4	Sulfate	56.0	mg/L	12.5
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15		CL	Chloride	132	mg/L	2.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15		TSS	Tot. Suspended Solids	18	mg/L	2
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15		SSC	Suspended Sediment Concentration	8.8	mg/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15		HARD	Hardness as CaCO3	306	mg/l	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15		COD	COD	11	mg/L	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	763	uS/cm	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15		TEMP_FLD	Temperature (Field) Celsius	15.88	Deg C	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15		PH_FLD	pH (Field)	8.57	S.U.	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15		DO_FLD	Dissolved Oxygen (field) mg/L	13.21	mg/l	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15		CONDUCTIVITY	Specific Conductivity (uS/cm)	925	uS/cm	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15		\$ICP	Aluminum	0.000	mg/L	0.348
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15		\$ICP	Antimony	0.000	mg/L	0.006
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15		\$ICP	Arsenic	0.000	mg/L	0.012
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15		\$ICP	Barium	0.066	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$ICP	Beryllium	0.000	mg/L	0.009
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$ICP	Cadmium	0.000	mg/L	0.012
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$ICP	Calcium	75.680	mg/L	0.066
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$ICP	Chromium	0.000	mg/L	0.006
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$ICP	Cobalt	0.000	mg/L	0.006
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$ICP	Copper	0.008	mg/L	0.006
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$ICP	Iron	0.260	mg/L	0.018
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$ICP	Lead	0.000	mg/L	0.006
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$ICP	Magnesium	27.445	mg/L	0.021
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$ICP	Manganese	0.021	mg/L	0.009
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$ICP	Nickel	0.000	mg/L	0.003
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$ICP	Selenium	0.019	mg/L	0.009
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$ICP	Silver	0.000	mg/L	0.003
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$ICP	Strontium	0.341	mg/L	0.009
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$ICP	Thallium	0.000	mg/L	0.012
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$ICP	Tin	0.000	mg/L	0.006
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$ICP	Vanadium	0.000	mg/L	0.018
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$ICP	Zinc	0.013	mg/L	0.006
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	PB_FU	Lead by Furnace	0.32	ug/L	0.5
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	AS_FU	Arsenic by Furnace	1.02	ug/L	1.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	CU_FU	Copper by Furnace	2.8	ug/L	1
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	NH3	Ammonia as N	0	mg/L	0.5
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	NO3NO2	Nitrate + Nitrite	2.96	mg/L	0.5
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	NO2	Nitrite as N	0.0148	mg/l	0.005
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	NO3	Nitrate as N (calculated)	2.9452	mg/l	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	Aldrin	AA	ug/L	.02
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	Beta-BHC	AA	ug/L	.02
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	Delta-BHC	AA	ug/L	.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	Chlordane	AA	ug/L	0.1
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	4,4-DDD	AA	ug/L	.02
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	4,4-DDT	AA	ug/L	.03
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	4,4-DDE	AA	ug/L	.02
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	Dieldrin	AA	ug/L	.02
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	Endosulfan I	AA	ug/L	.05
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	Endosulfan II	AA	ug/L	.02
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	Endrin	AA	ug/L	.02
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	Heptachlor	AA	ug/L	.05
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	Toxaphene	AA	ug/L	1
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	PCB 1016	AA	ug/L	0.5
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	PCB 1221	AA	ug/L	0.5
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	PCB 1232	AA	ug/L	0.5
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	PCB 1242	AA	ug/L	0.5
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	PCB 1248	AA	ug/L	0.5
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	PCB 1254	AA	ug/L	0.5
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	PCB 1260	AA	ug/L	0.5
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	Surr: Decachlorobiphenyl	96	%	0.955
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$PEST	Surr: Tetrachloro-m-xylene	101	%	101
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624	Bromochloromethane	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624	Chloromethane	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624	Vinyl Chloride	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624	Bromomethane	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624	Chloroethane	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624	Acrolein	0	ug/L	100.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624	Acrylonitrile	0	ug/L	100.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624	Methylene Chloride	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		Chloroform	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		Benzene	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		Trichloroethene	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		Bromodichloromethane	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		Dibromochloromethane	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		Bromoform	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		Tetrachloroethene	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		Toluene	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		Toluene-d8	100	ug/L	81
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		Chlorobenzene	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		Ethylbenzene	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		2-Propanone	0	ug/L	60
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		2-Butanone	0	ug/L	60
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		Dibromofluoromethane (S)	105	ug/L	83
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$624		4-Bromofluorobenzene (S)	100	ug/L	72

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	pyridine	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	2-Fluorophenol	39.1	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	aniline	0	ug/L	6.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	Phenol-d6	22.7	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	Phenol	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	2-Chlorophenol	0	ug/L	6.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	n-decane	0	ug/L	6.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	o-cresol	0	ug/L	6.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	acetophenone	0	ug/L	6.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	Hexachloroethane	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	Nitrobenzene-d5	79.6	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	p-cresol	0	ug/L	6.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	Nitrobenzene	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	Isophorone	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	Decafluorobiphenyl	62.4	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	2-Nitrophenol	0	ug/L	6.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	Naphthalene	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	1-Fluoronaphthalene	70.4	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	alpha terpineol	0	ug/L	6.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Acenaphthylene	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Acenaphthene	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		4-Nitrophenol	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Diethyl phthalate	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Fluorene	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		2,4,6-Tribromophenol	76.8	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Pentachlorophenol	0	ug/L	6.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		n-octadecane	0	ug/L	6.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Phenanthrene	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Anthracene	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		carbazole	0	ug/L	6.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Fluoranthene	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Benzidine	0	ug/L	6.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Pyrene	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Benzo(a)anthracene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Chrysene	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Perylene-D12	50.0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Hexachloroethane	0	ug/L	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		2,3-Dichloroaniline	0	ug/L	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Diethylphthalate	0	ug/L	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Benzo[ghi]perylene	0	ug/L	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		2-Hexene, 2,5,5-trimethyl- T	4	ug/L	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		2-Hexene, 2,5,5-trimethyl- T2	15	ug/L	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		2-Hexene, 2,5,5-trimethyl- T3	5	ug/L	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Cyclopropane, 2-bromo-1,1,3-trimethyl- T	4	ug/L	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	10	ug/L	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	4	ug/L	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Decane, 3,3,4-trimethyl- T	16	ug/L	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Pentane, 2,3,4-trimethyl- T	4	ug/L	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Propanoic acid, 2-methyl-, 2,2-dimethyl T	7	ug/L	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		Butanoic acid, butyl ester T	8	ug/L	
AC08568	LM01	Little Miami Watershed	1	10/15/2012	10:15	\$625		TOTAL AMOUNT	728	ug/L	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45		MF_CF	Fecal Coliform, Membrane Filter	128	CFU/100mL	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45		E-COLI	E.coli (Colilert)	127	MPN	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45		TDS	Total Dissolved Solids	400	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	SO4	Sulfate	44.9	mg/L	25.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	CL	Chloride	109	mg/L	2.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	TSS	Tot. Suspended Solids	18	mg/L	2
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	SSC	Suspended Sediment Concentration	19.4	mg/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	HARD	Hardness as CaCO3	272	mg/l	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	COD	COD	8	mg/L	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	623	uS/cm	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	TEMP_FLD	Temperature (Field) Celsius	12.81	Deg C	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	PH_FLD	pH (Field)	8.24	S.U.	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	DO_FLD	Dissolved Oxygen (field) mg/L	8.65	mg/l	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	812	uS/cm	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$ICP	Aluminum	0.000	mg/L	0.348
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$ICP	Antimony	0.000	mg/L	0.006
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$ICP	Arsenic	0.000	mg/L	0.012
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$ICP	Barium	0.062	mg/L	0.003
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$ICP	Beryllium	0.000	mg/L	0.009
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$ICP	Cadmium	0.000	mg/L	0.012
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$ICP	Calcium	73.139	mg/L	0.066
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$ICP	Chromium	0.000	mg/L	0.006
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$ICP	Cobalt	0.000	mg/L	0.006
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$ICP	Copper	0.007	mg/L	0.006
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$ICP	Iron	0.346	mg/L	0.018
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$ICP	Lead	0.000	mg/L	0.006
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$ICP	Magnesium	26.074	mg/L	0.021
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$ICP	Manganese	0.030	mg/L	0.009
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$ICP	Nickel	0.000	mg/L	0.003
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$ICP	Selenium	0.024	mg/L	0.009
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$ICP	Silver	0.000	mg/L	0.003
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$ICP	Strontium	0.320	mg/L	0.009
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$ICP	Thallium	0.000	mg/L	0.012
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$ICP	Tin	0.000	mg/L	0.006
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$ICP	Vanadium	0.000	mg/L	0.018

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$ICP	Zinc	0.009	mg/L	0.006
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	PB_FU	Lead by Furnace	0.39	ug/L	0.5
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	AS_FU	Arsenic by Furnace	0.99	ug/L	1.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	CU_FU	Copper by Furnace	2.9	ug/L	1
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	NH3	Ammonia as N	0	mg/L	0.5
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	NO3NO2	Nitrate + Nitrite	2.54	mg/L	0.5
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	TKP	Total Kjeldahl Phosphorus	.3228	mg/L	0.5
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	NO2	Nitrite as N	0.0110	mg/l	0.005
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	NO3	Nitrate as N (calculated)	2.5290	mg/l	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	Aldrin	AA	ug/L	.02
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	Beta-BHC	AA	ug/L	.02
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	Delta-BHC	AA	ug/L	.02
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	Chlordane	AA	ug/L	0.1
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	4,4-DDD	AA	ug/L	.03
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	4,4-DDT	AA	ug/L	.03
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	4,4-DDE	AA	ug/L	.02
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	Dieldrin	AA	ug/L	0.1
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	Endosulfan I	AA	ug/L	0.1
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	Endosulfan II	AA	ug/L	.02
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	Endrin	AA	ug/L	1
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	Endrin aldehyde	AA	ug/L	0.5
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	Heptachlor	AA	ug/L	0.5
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	Heptachlor epoxide	AA	ug/L	0.5
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	Toxaphene	AA	ug/L	.5
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	PCB 1016	AA	ug/L	0.5
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	PCB 1221	AA	ug/L	0.5
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	PCB 1232	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	PCB 1242	AA	ug/L	0.5
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	PCB 1248	AA	ug/L	0.5
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	PCB 1254	AA	ug/L	0.5
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	PCB 1260	AA	ug/L	0.5
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	Surr: Decachlorobiphenyl	AA	%	91.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$PEST	Surr: Tetrachloro-m-xylene	AA	%	0.91
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Bromochloromethane	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Chloromethane	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Vinyl Chloride	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Bromomethane	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Chloroethane	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Acrolein	0	ug/L	100.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Acrylonitrile	0	ug/L	100.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Methylene Chloride	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Chloroform	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Benzene	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Trichloroethene	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Bromodichloromethane	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Dibromochloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Bromoform	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Tetrachloroethene	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Toluene	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Toluene-d8	99	ug/L	81
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Chlorobenzene	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Ethylbenzene	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	2-Propanone	0	ug/L	60
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	2-Butanone	0	ug/L	60
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	Dibromofluoromethane (S)	107	ug/L	83
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$624	4-Bromofluorobenzene (S)	100	ug/L	72
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	pyridine	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	2-Fluorophenol	23.0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	aniline	0	ug/L	6.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Phenol-d6	16.6	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Phenol	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	2-Chlorophenol	0	ug/L	6.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	n-decane	0	ug/L	6.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	o-cresol	0	ug/L	6.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	acetophenone	0	ug/L	6.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Hexachloroethane	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Nitrobenzene-d5	59.9	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	p-cresol	0	ug/L	6.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Nitrobenzene	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Isophorone	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Decafluorobiphenyl	44.8	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	2-Nitrophenol	0	ug/L	6.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Naphthalene	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	1-Fluoronaphthalene	55.4	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	alpha terpineol	0	ug/L	6.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Acenaphthylene	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Acenaphthene	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	4-Nitrophenol	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Diethyl phthalate	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Fluorene	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	2,4,6-Tribromophenol	35.9	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Pentachlorophenol	0	ug/L	6.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	n-octadecane	0	ug/L	6.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Phenanthrene	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Anthracene	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	carbazole	0	ug/L	6.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Fluoranthene	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Benzidine	0	ug/L	6.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Pyrene	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Chrysene	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Perylene-D12	50.0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Hexachloroethane	0	ug/L	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	2,3-Dichloroaniline	0	ug/L	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Diethylphthalate	0	ug/L	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625		Benzo[ghi]perylene	0	ug/L	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625		2,5-Cyclohexadien-1-one, 3,5-dihydroxy T	5	ug/L	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625		2-Hexene, 3,5,5-trimethyl- T	19	ug/L	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625		2-Hexene, 3,5,5-trimethyl- T2	6	ug/L	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625		1-Silacyclo-3-pentene T	4	ug/L	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	13	ug/L	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625		2-Butenal, 3-methyl- T	5	ug/L	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625		Undecane, 3,3-dimethyl- T	4	ug/L	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625		Decane, 3,3,4-trimethyl- T	20	ug/L	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625		Octane, 3-methyl-6-methylene- T	3	ug/L	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625		Pentane, 2,3,4-trimethyl- T	5	ug/L	
AC08607	LM07	Little Miami Watershed	7	10/16/2012	09:45	\$625		TOTAL AMOUNT	620	ug/L	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30		MF_CF	Fecal Coliform, Membrane Filter	300	CFU/100mL	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30		E-COLI	E.coli (Colilert)	291	MPN	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30		TDS	Total Dissolved Solids	420	mg/L	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30		SO4	Sulfate	50.2	mg/L	12.5
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30		CL	Chloride	112	mg/L	2.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30		TSS	Tot. Suspended Solids	24	mg/L	2
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30		SSC	Suspended Sediment Concentration	12.5	mg/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30		HARD	Hardness as CaCO3	246	mg/l	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30		COD	COD	10	mg/L	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	607	uS/cm	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30		TEMP_FLD	Temperature (Field) Celsius	13.83	Deg C	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30		PH_FLD	pH (Field)	8.24	S.U.	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30		DO_FLD	Dissolved Oxygen (field) mg/L	10	mg/l	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30		CONDUCTIVITY	Specific Conductivity (uS/cm)	772	uS/cm	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30		\$ICP	Aluminum	0.000	mg/L	0.348
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30		\$ICP	Antimony	0.000	mg/L	0.006
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30		\$ICP	Arsenic	0.000	mg/L	0.012
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30		\$ICP	Barium	0.059	mg/L	0.003
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30		\$ICP	Beryllium	0.000	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$ICP	Cadmium	0.000	mg/L	0.012
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$ICP	Calcium	69.143	mg/L	0.066
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$ICP	Chromium	0.000	mg/L	0.006
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$ICP	Cobalt	0.000	mg/L	0.006
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$ICP	Copper	0.008	mg/L	0.006
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$ICP	Iron	0.474	mg/L	0.018
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$ICP	Lead	0.000	mg/L	0.006
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$ICP	Magnesium	23.773	mg/L	0.021
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$ICP	Manganese	0.033	mg/L	0.009
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$ICP	Nickel	0.000	mg/L	0.003
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$ICP	Selenium	0.020	mg/L	0.009
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$ICP	Silver	0.000	mg/L	0.003
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$ICP	Strontium	0.300	mg/L	0.009
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$ICP	Thallium	0.000	mg/L	0.012
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$ICP	Tin	0.000	mg/L	0.006
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$ICP	Vanadium	0.000	mg/L	0.018
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$ICP	Zinc	0.010	mg/L	0.006
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	PB_FU	Lead by Furnace	0.54	ug/L	0.5
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	AS_FU	Arsenic by Furnace	1.02	ug/L	1.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	CU_FU	Copper by Furnace	4.2	ug/L	1
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	NO3NO2	Nitrate + Nitrite	1.94	mg/L	0.5
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	NO2	Nitrite as N	0.0086	mg/l	0.005
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	NO3	Nitrate as N (calculated)	1.9314	mg/l	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	Aldrin	AA	ug/L	0.02
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	Gamma-BHC	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	Chlordane	AA	ug/L	0.1
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	Endrin	AA	ug/L	0.02
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	Toxaphene	AA	ug/L	1
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	Surr: Decachlorobiphenyl	0	%	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$PEST	Surr: Tetrachloro-m-xylene	0	%	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624	Bromochloromethane	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624	Chloromethane	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624	Vinyl Chloride	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624	Bromomethane	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624	Chloroethane	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624	Acrolein	0	ug/L	100.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624	Acrylonitrile	0	ug/L	100.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624	Methylene Chloride	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		Chloroform	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		Benzene	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		Trichloroethene	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		Bromoform	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		Toluene	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		Toluene-d8	99	ug/L	81
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		Chlorobenzene	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		Ethylbenzene	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		2-Propanone	0	ug/L	60
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		2-Butanone	0	ug/L	60
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		Dibromofluoromethane (S)	110	ug/L	83
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$624		4-Bromofluorobenzene (S)	101	ug/L	72
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		pyridine	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		2-Fluorophenol	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		aniline	0	ug/L	6.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Phenol-d6	4.1	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Phenol	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		n-decane	0	ug/L	6.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		o-cresol	0	ug/L	6.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		acetophenone	0	ug/L	6.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Hexachloroethane	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Nitrobenzene-d5	64.8	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		p-cresol	0	ug/L	6.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Nitrobenzene	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Isophorone	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Decafluorobiphenyl	58.1	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Naphthalene	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		1-Fluoronaphthalene	60.0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		alpha terpineol	0	ug/L	6.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		2,3 dichloroaniline	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Acenaphthylene	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Acenaphthene	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		4-Nitrophenol	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Diethyl phthalate	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Fluorene	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		2,4,6-Tribromophenol	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Pentachlorophenol	0	ug/L	6.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		n-octadecane	0	ug/L	6.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Phenanthrene	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Anthracene	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		carbazole	0	ug/L	6.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Fluoranthene	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Benzidine	0	ug/L	6.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Pyrene	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Chrysene	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Hexachloroethane	0	ug/L	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Diethylphthalate	0	ug/L	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		2,5-Cyclohexadien-1-one, 3,5-dihydroxy T	4	ug/L	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		2-Hexene, 2,5,5-trimethyl- T	15	ug/L	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		2-Hexene, 3,5,5-trimethyl- T	5	ug/L	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Cyclohexanecarboxylic acid, ethenyl es T	4	ug/L	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	21	ug/L	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	4	ug/L	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Decane, 3,3,4-trimethyl- T	17	ug/L	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Hexane, 3,3,4-trimethyl- T	4	ug/L	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Propanoic acid, 2-methyl-, 2,2-dimethy T	10	ug/L	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		Propanoic acid, 2-methyl-, 2-ethyl-3-h T	12	ug/L	
AC08608	LM09	Little Miami Watershed	9	10/16/2012	10:30	\$625		TOTAL AMOUNT	587	ug/L	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00		MF_CF	Fecal Coliform, Membrane Filter	136	CFU/100mL	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00		E-COLI	E.coli (Colilert)	122	MPN	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00		TDS	Total Dissolved Solids	260	mg/L	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00		BOD	Biochemical Oxygen Demand	2	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	SO4	Sulfate	40.0	mg/L	12.5
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	CL	Chloride	46.7	mg/L	1.00
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	TSS	Tot. Suspended Solids	20	mg/L	2
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	SSC	Suspended Sediment Concentration	11.3	mg/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	HARD	Hardness as CaCO3	200	mg/l	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	COD	COD	9	mg/L	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	546	uS/cm	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	13.87	Deg C	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	PH_FLD	pH (Field)	8.10	S.U.	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	8.75	mg/l	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	694	uS/cm	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$ICP	Aluminum	0.378	mg/L	0.348
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$ICP	Antimony	0.000	mg/L	0.006
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$ICP	Arsenic	0.000	mg/L	0.012
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$ICP	Barium	0.035	mg/L	0.003
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$ICP	Beryllium	0.000	mg/L	0.009
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$ICP	Cadmium	0.000	mg/L	0.012
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$ICP	Calcium	59.695	mg/L	0.066
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$ICP	Chromium	0.000	mg/L	0.006
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$ICP	Cobalt	0.000	mg/L	0.006
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$ICP	Copper	0.007	mg/L	0.006
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$ICP	Iron	0.675	mg/L	0.018
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$ICP	Lead	0.000	mg/L	0.006
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$ICP	Magnesium	13.880	mg/L	0.021
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$ICP	Manganese	0.110	mg/L	0.009
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$ICP	Nickel	0.000	mg/L	0.003
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$ICP	Selenium	0.018	mg/L	0.009
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$ICP	Silver	0.000	mg/L	0.003
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$ICP	Strontium	0.201	mg/L	0.009
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$ICP	Thallium	0.000	mg/L	0.012
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$ICP	Tin	0.000	mg/L	0.006
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$ICP	Vanadium	0.000	mg/L	0.018
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$ICP	Zinc	0.012	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	PB_FU	Lead by Furnace	0.69	ug/L	0.5
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	AS_FU	Arsenic by Furnace	1.52	ug/L	1.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	CU_FU	Copper by Furnace	3.1	ug/L	1
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	NO3NO2	Nitrate + Nitrite	4.15	mg/L	0.5
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	TKP	Total Kjeldahl Phosphorus	0.6782	mg/L	0.5
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	NO2	Nitrite as N	0.0138	mg/l	0.005
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	NO3	Nitrate as N (calculated)	4.1362	mg/l	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	Aldrin	AA	ug/L	0.0204
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	Alpha-BHC	AA	ug/L	0.0204
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	Beta-BHC	AA	ug/L	0.0204
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	Delta-BHC	AA	ug/L	0.0204
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	Gamma-BHC	AA	ug/L	0.0204
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	Chlordane	AA	ug/L	0.102
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	4,4-DDD	AA	ug/L	0.0204
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	4,4-DDT	AA	ug/L	0.0306
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	4,4-DDE	AA	ug/L	0.0204
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	Dieldrin	AA	ug/L	0.0204
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	Endosulfan I	AA	ug/L	0.0510
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	Endosulfan II	AA	ug/L	0.204
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	Endosulfan sulfate	AA	ug/L	0.0510
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	Endrin	AA	ug/L	0.0204
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	Endrin aldehyde	AA	ug/L	0.0204
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	Heptachlor	AA	ug/L	0.0204
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	Heptachlor epoxide	AA	ug/L	0.051
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	Toxaphene	AA	ug/L	1.02
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	PCB 1016	AA	ug/L	0.51
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	PCB 1221	AA	ug/L	0.51
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	PCB 1232	AA	ug/L	0.51
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	PCB 1242	AA	ug/L	0.51

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	PCB 1248	AA	ug/L	0.51
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	PCB 1254	AA	ug/L	0.51
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	PCB 1260	AA	ug/L	0.51
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	Surr: Decachlorobiphenyl	0	%	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$PEST	Surr: Tetrachloro-m-xylene	0	%	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	Bromochloromethane	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	Chloromethane	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	Bromomethane	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	Chloroethane	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	Acrolein	0	ug/L	100.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	Acrylonitrile	0	ug/L	100.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	Methylene Chloride	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	Chloroform	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	Benzene	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	Trichloroethene	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	Bromodichloromethane	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	Dibromochloromethane	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624	Bromoform	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624		Toluene	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624		Toluene-d8	98	ug/L	81
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624		Chlorobenzene	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624		Ethylbenzene	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624		2-Propanone	0	ug/L	60
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624		2-Butanone	0	ug/L	60
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624		Dibromofluoromethane (S)	107	ug/L	83
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$624		4-Bromofluorobenzene (S)	100	ug/L	72
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		pyridine	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		2-Fluorophenol	37.7	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		aniline	0	ug/L	6.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Phenol-d6	23.1	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Phenol	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		2-Chlorophenol	0	ug/L	6.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		n-decane	0	ug/L	6.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		o-cresol	0	ug/L	6.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		acetophenone	0	ug/L	6.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Hexachloroethane	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Nitrobenzene-d5	78.2	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		p-cresol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	Nitrobenzene	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	Isophorone	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	Decafluorobiphenyl	77.8	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	2-Nitrophenol	0	ug/L	6.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	Naphthalene	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	1-Fluoronaphthalene	77.8	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	alpha terpineol	0	ug/L	6.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	Acenaphthylene	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	Acenaphthene	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	4-Nitrophenol	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	Diethyl phthalate	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	Fluorene	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	2,4,6-Tribromophenol	76.2	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Pentachlorophenol	0	ug/L	6.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		n-octadecane	0	ug/L	6.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Phenanthrene	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Anthracene	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		carbazole	0	ug/L	6.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Fluoranthene	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Benzidine	0	ug/L	6.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Pyrene	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Chrysene	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Perylene-D12	50.0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Hexachloroethane	0	ug/L	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		2,3-Dichloroaniline	0	ug/L	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Diethylphthalate	0	ug/L	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625		Dibenz[a,h]anthracene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	Benzo[ghi]perylene	0	ug/L	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	Hexane, 1-(hexyloxy)-4-methyl- T	5	ug/L	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	2-Hexene, 3,5,5-trimethyl- T	20	ug/L	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	2-Hexene, 3,5,5-trimethyl- T2	6	ug/L	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	Hydrazine, 1,1-bis(1-methylethyl)- T	7	ug/L	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	5	ug/L	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	Pentane, 2,3,4-trimethyl- T	22	ug/L	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	Decane, 3,3,4-trimethyl- T	5	ug/L	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	Propanoic acid, 2-methyl-, 2,2-dimethyl T	7	ug/L	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	Propanoic acid, 2-methyl-, 2-ethyl-3-h T	8	ug/L	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	Sydnone, 3-(4-methoxyphenyl)- T	5	ug/L	
AC08609	LM10	Little Miami Watershed	10 (3261-10)	10/16/2012	11:00	\$625	TOTAL AMOUNT	762	ug/L	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	MF_CF	Fecal Coliform, Membrane Filter	186	CFU/100mL	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	E-COLI	E.coli (Colilert)	167	MPN	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	TDS	Total Dissolved Solids	370	mg/L	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	SO4	Sulfate	48.0	mg/L	12.5
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	CL	Chloride	86.9	mg/L	1.00
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	TSS	Tot. Suspended Solids	8	mg/L	2
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	SSC	Suspended Sediment Concentration	10.8	mg/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	HARD	Hardness as CaCO3	248	mg/l	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	COD	COD	16	mg/L	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	559	uS/cm	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	TEMP_FLD	Temperature (Field) Celsius	13.97	Deg C	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	PH_FLD	pH (Field)	8.45	S.U.	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	DO_FLD	Dissolved Oxygen (field) mg/L	10.6	mg/l	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	708	uS/cm	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$ICP	Aluminum	0.000	mg/L	0.348
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$ICP	Antimony	0.000	mg/L	0.006
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$ICP	Arsenic	0.000	mg/L	0.012
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$ICP	Barium	0.052	mg/L	0.003
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$ICP	Beryllium	0.000	mg/L	0.009
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$ICP	Cadmium	0.000	mg/L	0.012



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$ICP	Calcium	70.815	mg/L	0.066
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$ICP	Chromium	0.000	mg/L	0.006
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$ICP	Cobalt	0.000	mg/L	0.006
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$ICP	Copper	0.000	mg/L	0.006
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$ICP	Iron	0.430	mg/L	0.018
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$ICP	Lead	0.000	mg/L	0.006
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$ICP	Magnesium	21.992	mg/L	0.021
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$ICP	Manganese	0.042	mg/L	0.009
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$ICP	Nickel	0.000	mg/L	0.003
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$ICP	Selenium	0.025	mg/L	0.009
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$ICP	Silver	0.000	mg/L	0.003
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$ICP	Strontium	0.280	mg/L	0.009
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$ICP	Thallium	0.019	mg/L	0.012
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$ICP	Tin	0.000	mg/L	0.006
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$ICP	Vanadium	0.000	mg/L	0.018
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$ICP	Zinc	0.008	mg/L	0.006
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	PB_FU	Lead by Furnace	0.46	ug/L	0.5
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	AS_FU	Arsenic by Furnace	1.02	ug/L	1.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	CU_FU	Copper by Furnace	2.7	ug/L	1
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	NH3	Ammonia as N	0	mg/L	0.5
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	NO3NO2	Nitrate + Nitrite	2.46	mg/L	0.5
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	NO2	Nitrite as N	0.0063	mg/l	0.005
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	NO3	Nitrate as N (calculated)	2.4537	mg/l	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	Aldrin	AA	ug/L	.02
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	Beta-BHC	AA	ug/L	.02
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	Delta-BHC	AA	ug/L	.02
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	Chlordane	AA	ug/L	0.1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	4,4-DDD	AA	ug/L	.02
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	4,4-DDT	AA	ug/L	.03
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	4,4-DDE	AA	ug/L	.02
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	Dieldrin	AA	ug/L	.02
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	Endosulfan I	AA	ug/L	.05
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	Endosulfan II	AA	ug/L	.02
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	Endrin	AA	ug/L	.02
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	Heptachlor	AA	ug/L	.02
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	Toxaphene	AA	ug/L	1
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	PCB 1016	AA	ug/L	0.5
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	PCB 1221	AA	ug/L	0.5
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	PCB 1232	AA	ug/L	0.5
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	PCB 1242	AA	ug/L	0.5
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	PCB 1248	AA	ug/L	0.5
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	PCB 1254	AA	ug/L	0.5
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	PCB 1260	AA	ug/L	0.5
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	Surr: Decachlorobiphenyl	82	%	1.07
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$PEST	Surr: Tetrachloro-m-xylene	104	%	0.835
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624	Bromochloromethane	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624	Chloromethane	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624	Vinyl Chloride	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624	Bromomethane	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624	Chloroethane	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624	Acrolein	0	ug/L	100.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624	Acrylonitrile	0	ug/L	100.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624	Methylene Chloride	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624	1,1-Dichloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		Chloroform	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		Benzene	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		Trichloroethene	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		Bromodichloromethane	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		Dibromochloromethane	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		Bromoform	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		Tetrachloroethene	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		Toluene	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		Toluene-d8	99	ug/L	81
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		Chlorobenzene	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		Ethylbenzene	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		2-Propanone	0	ug/L	60
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		2-Butanone	0	ug/L	60
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		Dibromofluoromethane (S)	106	ug/L	83
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$624		4-Bromofluorobenzene (S)	102	ug/L	72
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		pyridine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		2-Fluorophenol	35.0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		aniline	0	ug/L	6.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Phenol-d6	20.9	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Phenol	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		2-Chlorophenol	0	ug/L	6.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		n-decane	0	ug/L	6.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		o-cresol	0	ug/L	6.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		acetophenone	0	ug/L	6.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Hexachloroethane	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Nitrobenzene-d5	67.7	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		p-cresol	0	ug/L	6.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Nitrobenzene	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Isophorone	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Decafluorobiphenyl	45.0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		2-Nitrophenol	0	ug/L	6.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Naphthalene	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		1-Fluoronaphthalene	59.2	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		alpha terpineol	0	ug/L	6.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Acenaphthylene	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Acenaphthene	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		4-Nitrophenol	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Diethyl phthalate	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Fluorene	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		2,4,6-Tribromophenol	71.6	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Pentachlorophenol	0	ug/L	6.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		n-octadecane	0	ug/L	6.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Phenanthrene	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Anthracene	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		carbazole	0	ug/L	6.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Fluoranthene	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Benzidine	0	ug/L	6.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Pyrene	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		Chrysene	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	Perylene-D12	50.0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	Hexachloroethane	0	ug/L	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	2,3-Dichloroaniline	0	ug/L	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	Diethylphthalate	0	ug/L	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	Benzo[ghi]perylene	0	ug/L	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	6,6-Dimethyl-cyclohex-2-en-1-ol T	4	ug/L	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	2-Hexene, 2,5,5-trimethyl- T	14	ug/L	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	2-Hexene, 3,5,5-trimethyl- T	5	ug/L	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	Cyclopentane, 1-ethyl-1-methyl- T	4	ug/L	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	2-Butenal, 3-methyl- T	4	ug/L	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	Ethane, 1,1,2,2-tetrachloro- T	4	ug/L	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	Pentane, 2,3,4-trimethyl- T	14	ug/L	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	Pentane, 2,3,4-trimethyl- T2	4	ug/L	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	Propanoic acid, 2-methyl-, 2,2-dimethyl T	7	ug/L	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	Propanoic acid, 2-methyl-, 3-hydroxy-2 T	8	ug/L	
AC08610	LM11	Little Miami Watershed	11	10/16/2012	11:45	\$625	TOTAL AMOUNT	666	ug/L	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	MF_CF	Fecal Coliform, Membrane Filter	193	CFU/100mL	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	E-COLI	E.coli (Colilert)	248	MPN	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	TDS	Total Dissolved Solids	350	mg/L	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	SO4	Sulfate	46.5	mg/L	12.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	CL	Chloride	82.7	mg/L	1.00
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	TSS	Tot. Suspended Solids	20	mg/L	2
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	SSC	Suspended Sediment Concentration	12.9	mg/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	HARD	Hardness as CaCO3	258	mg/l	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	COD	COD	43	mg/L	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	547	uS/cm	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	TEMP_FLD	Temperature (Field) Celsius	13.73	Deg C	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	PH_FLD	pH (Field)	8.29	S.U.	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	DO_FLD	Dissolved Oxygen (field) mg/L	9.44	mg/l	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	697	uS/cm	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$ICP	Aluminum	0.000	mg/L	0.348
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$ICP	Antimony	0.000	mg/L	0.006
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$ICP	Arsenic	0.000	mg/L	0.012
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$ICP	Barium	0.053	mg/L	0.003
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$ICP	Beryllium	0.000	mg/L	0.009
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$ICP	Cadmium	0.000	mg/L	0.012
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$ICP	Calcium	70.928	mg/L	0.066
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$ICP	Chromium	0.000	mg/L	0.006
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$ICP	Cobalt	0.000	mg/L	0.006
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$ICP	Copper	0.006	mg/L	0.006
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$ICP	Iron	0.544	mg/L	0.018
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$ICP	Lead	0.000	mg/L	0.006
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$ICP	Magnesium	21.528	mg/L	0.021
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$ICP	Manganese	0.050	mg/L	0.009
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$ICP	Nickel	0.000	mg/L	0.003
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$ICP	Selenium	0.021	mg/L	0.009
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$ICP	Silver	0.000	mg/L	0.003
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$ICP	Strontium	0.277	mg/L	0.009
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$ICP	Thallium	0.040	mg/L	0.012
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$ICP	Tin	0.000	mg/L	0.006
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$ICP	Vanadium	0.000	mg/L	0.018
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$ICP	Zinc	0.013	mg/L	0.006
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	PB_FU	Lead by Furnace	0.59	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	AS_FU	Arsenic by Furnace	1.29	ug/L	1.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	CU_FU	Copper by Furnace	5.1	ug/L	1
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	NH3	Ammonia as N	0	mg/L	0.5
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	NO3NO2	Nitrate + Nitrite	2.49	mg/L	0.5
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	NO2	Nitrite as N	0.0095	mg/l	0.005
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	NO3	Nitrate as N (calculated)	2.4805	mg/l	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	Aldrin	AA	ug/L	.02
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	Beta-BHC	AA	ug/L	.02
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	Delta-BHC	AA	ug/L	.02
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	Chlordane	AA	ug/L	0.1
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	4,4-DDD	AA	ug/L	.02
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	4,4-DDT	AA	ug/L	.03
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	4,4-DDE	AA	ug/L	.02
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	Dieldrin	AA	ug/L	0.1
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	Endosulfan I	AA	ug/L	.02
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	Endosulfan II	AA	ug/L	.05
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	Endosulfan sulfate	AA	ug/L	.02
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	Endrin	AA	ug/L	.05
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	Heptachlor	AA	ug/L	.02
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	Toxaphene	AA	ug/L	1
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	PCB 1016	AA	ug/L	0.5
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	PCB 1221	AA	ug/L	0.5
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	PCB 1232	AA	ug/L	0.5
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	PCB 1242	AA	ug/L	0.5
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	PCB 1248	AA	ug/L	0.5



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	PCB 1254	AA	ug/L	0.5
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	PCB 1260	AA	ug/L	0.5
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	Surr: Decachlorobiphenyl	97	%	0.985
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$PEST	Surr: Tetrachloro-m-xylene	90	%	0.917
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Bromochloromethane	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Chloromethane	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Vinyl Chloride	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Bromomethane	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Chloroethane	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Acrolein	0	ug/L	100.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Acrylonitrile	0	ug/L	100.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Methylene Chloride	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Chloroform	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Benzene	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Trichloroethene	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Bromodichloromethane	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Dibromochloromethane	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Bromoform	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	1,4-Dichlorobutane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Tetrachloroethene	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Toluene	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Toluene-d8	100	ug/L	81
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Chlorobenzene	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Ethylbenzene	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	2-Propanone	0	ug/L	60
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	2-Butanone	0	ug/L	60
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	Dibromofluoromethane (S)	105	ug/L	83
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$624	4-Bromofluorobenzene (s)	100	ug/L	72
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	pyridine	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	2-Fluorophenol	14.5	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	aniline	0	ug/L	6.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Phenol-d6	11.9	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Phenol	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	2-Chlorophenol	0	ug/L	6.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	n-decane	0	ug/L	6.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	o-cresol	0	ug/L	6.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	acetophenone	0	ug/L	6.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Hexachloroethane	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Nitrobenzene-d5	39.2	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	p-cresol	0	ug/L	6.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Nitrobenzene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Isophorone	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Decafluorobiphenyl	26.6	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	2-Nitrophenol	0	ug/L	6.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Naphthalene	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	1-Fluoronaphthalene	36.5	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	alpha terpineol	0	ug/L	6.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Acenaphthylene	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Acenaphthene	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	4-Nitrophenol	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Diethyl phthalate	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Fluorene	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	2,4,6-Tribromophenol	22.7	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Pentachlorophenol	0	ug/L	6.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	n-octadecane	0	ug/L	6.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Phenanthrene	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Anthracene	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	carbazole	0	ug/L	6.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Fluoranthene	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Benzidine	0	ug/L	6.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Pyrene	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Chrysene	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Perylene-D12	50.0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Hexachloroethane	0	ug/L	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	2,3-Dichloroaniline	0	ug/L	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Diethylphthalate	0	ug/L	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Indeno[1,2,3-cd]pyrene	2	ug/L	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Dibenz[a,h]anthracene	1	ug/L	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Benzo[ghi]perylene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	2,5-Cyclohexadien-1-one, 3,5-dihydroxy T	4	ug/L	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	2-Hexene, 2,5,5-trimethyl- T	19	ug/L	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	2-Hexene, 3,5,5-trimethyl- T	5	ug/L	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	1-Silacyclo-3-pentene T	4	ug/L	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	5	ug/L	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Thiophene, 2-(2-methylpropyl)- T	2	ug/L	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Pentane, 2,3,4-trimethyl- T	3	ug/L	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Pentane, 2,3,4-trimethyl- T2	22	ug/L	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Octane, 3-methyl-6-methylene- T	3	ug/L	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	Hexane, 3,3,4-trimethyl- T	4	ug/L	
AC08611	LM12	Little Miami Watershed	12 (3261-04)	10/16/2012	12:10	\$625	TOTAL AMOUNT	528	ug/L	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	MF_CF	Fecal Coliform, Membrane Filter	179	CFU/100mL	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	E-COLI	E.coli (Colilert)	219	MPN	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	TDS	Total Dissolved Solids	390	mg/L	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	SO4	Sulfate	47.0	mg/L	12.5
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	CL	Chloride	84.4	mg/L	1.00
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	TSS	Tot. Suspended Solids	10	mg/L	2
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	SSC	Suspended Sediment Concentration	35.5	mg/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	HARD	Hardness as CaCO3	250	mg/l	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	COD	COD	6	mg/L	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	583	uS/cm	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	TEMP_FLD	Temperature (Field) Celsius	15.27	Deg C	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	PH_FLD	pH (Field)	8.10	S.U.	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	DO_FLD	Dissolved Oxygen (field) mg/L	10	mg/l	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	CONDUCTIVITY	Specific Conductivity (uS/cm)	720	uS/cm	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$ICP	Aluminum	0.000	mg/L	0.348
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$ICP	Antimony	0.000	mg/L	0.006
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$ICP	Arsenic	0.000	mg/L	0.012
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$ICP	Barium	0.058	mg/L	0.003
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$ICP	Beryllium	0.000	mg/L	0.009
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$ICP	Cadmium	0.000	mg/L	0.012
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$ICP	Calcium	76.138	mg/L	0.066

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$ICP	Chromium	0.000	mg/L	0.006
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$ICP	Cobalt	0.000	mg/L	0.006
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$ICP	Copper	0.000	mg/L	0.006
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$ICP	Iron	0.598	mg/L	0.018
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$ICP	Lead	0.000	mg/L	0.006
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$ICP	Magnesium	23.745	mg/L	0.021
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$ICP	Manganese	0.124	mg/L	0.009
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$ICP	Nickel	0.000	mg/L	0.003
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$ICP	Selenium	0.019	mg/L	0.009
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$ICP	Silver	0.000	mg/L	0.003
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$ICP	Strontium	0.303	mg/L	0.009
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$ICP	Thallium	0.027	mg/L	0.012
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$ICP	Tin	0.000	mg/L	0.006
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$ICP	Vanadium	0.000	mg/L	0.018
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$ICP	Zinc	0.008	mg/L	0.006
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	PB_FU	Lead by Furnace	0.48	ug/L	0.5
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	AS_FU	Arsenic by Furnace	1.26	ug/L	1.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	CU_FU	Copper by Furnace	3.2	ug/L	1
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	NH3	Ammonia as N	0	mg/L	0.5
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	NO3NO2	Nitrate + Nitrite	2.24	mg/L	0.5
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	NO2	Nitrite as N	0.0081	mg/l	0.005
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	NO3	Nitrate as N (calculated)	2.2319	mg/l	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	Aldrin	AA	ug/L	.02
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	Beta-BHC	AA	ug/L	.02
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	Delta-BHC	AA	ug/L	.02
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	Chlordane	AA	ug/L	0.1
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	4,4-DDD	AA	ug/L	.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	4,4-DDT	AA	ug/L	.03
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	4,4-DDE	AA	ug/L	.02
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	Dieldrin	AA	ug/L	.02
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	Endosulfan I	AA	ug/L	.05
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	Endosulfan II	AA	ug/L	.02
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	Endrin	AA	ug/L	.02
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	Heptachlor	AA	ug/L	.02
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	Toxaphene	AA	ug/L	1
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	PCB 1016	AA	ug/L	0.5
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	PCB 1221	AA	ug/L	0.5
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	PCB 1232	AA	ug/L	0.5
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	PCB 1242	AA	ug/L	0.5
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	PCB 1248	AA	ug/L	0.5
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	PCB 1254	AA	ug/L	0.5
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	PCB 1260	AA	ug/L	0.5
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	Surr: Decachlorobiphenyl	87	%	0.869
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$PEST	Surr: Tetrachloro-m-xylene	95	%	0.954
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624	Bromochloromethane	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624	Chloromethane	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624	Vinyl Chloride	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624	Bromomethane	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624	Chloroethane	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624	Acrolein	0	ug/L	100.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624	Acrylonitrile	0	ug/L	100.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624	Methylene Chloride	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624	Chloroform	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		Benzene	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		Trichloroethene	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		Bromodichloromethane	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		Dibromochloromethane	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		Bromoform	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		Tetrachloroethene	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		Toluene	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		Toluene-d8	99	ug/L	81
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		Chlorobenzene	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		Ethylbenzene	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		2-Propanone	0	ug/L	60
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		2-Butanone	0	ug/L	60
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		Dibromofluoromethane (S)	108	ug/L	83
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$624		4-Bromofluorobenzene (S)	100	ug/L	72
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		pyridine	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		n-nitrosodimethylamine	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		2-Fluorophenol	14.3	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		aniline	0	ug/L	6.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		Phenol-d6	16.6	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		Phenol	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		2-Chlorophenol	0	ug/L	6.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		n-decane	0	ug/L	6.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		o-cresol	0	ug/L	6.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		acetophenone	0	ug/L	6.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		Hexachloroethane	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		Nitrobenzene-d5	56.8	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		p-cresol	0	ug/L	6.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		Nitrobenzene	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		Isophorone	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		Decafluorobiphenyl	40.6	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		2-Nitrophenol	0	ug/L	6.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		Naphthalene	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		1-Fluoronaphthalene	50.1	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		alpha terpineol	0	ug/L	6.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625		2-Chloronaphthalene	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Acenaphthylene	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Acenaphthene	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	4-Nitrophenol	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Diethyl phthalate	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Fluorene	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	2,4,6-Tribromophenol	28.8	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Pentachlorophenol	0	ug/L	6.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	n-octadecane	0	ug/L	6.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Phenanthrene	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Anthracene	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	carbazole	0	ug/L	6.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Fluoranthene	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Benzidine	0	ug/L	6.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Pyrene	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Chrysene	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Di-n-octyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Perylene-D12	50.0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Hexachloroethane	0	ug/L	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	2,3-Dichloroaniline	0	ug/L	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Diethylphthalate	0	ug/L	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Benzo[ghi]perylene	0	ug/L	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	2,5-Cyclohexadien-1-one, 3,5-dihydroxy T	4	ug/L	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	2-Hexene, 2,5,5-trimethyl- T	20	ug/L	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	2-Hexene, 3,5,5-trimethyl- T	5	ug/L	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	1-Silacyclo-3-pentene T	4	ug/L	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	3-Ethyl-3-hexene T	2	ug/L	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	2-Butenal, 3-methyl- T	5	ug/L	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Pentane, 2,3,4-trimethyl- T	3	ug/L	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Decane, 3,3,4-trimethyl- T	21	ug/L	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Octane, 3-methyl-6-methylene- T	3	ug/L	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	Pentane, 2,3,4-trimethyl- T2	4	ug/L	
AC08612	LM14	Little Miami Watershed	14	10/16/2012	12:45	\$625	TOTAL AMOUNT	581	ug/L	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	MF_CF	Fecal Coliform, Membrane Filter	200	CFU/100mL	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	E-COLI	E.coli (Colilert)	308	MPN	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	TDS	Total Dissolved Solids	370	mg/L	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	SO4	Sulfate	47.0	mg/L	12.5
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	CL	Chloride	83.9	mg/L	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	TSS	Tot. Suspended Solids	20	mg/L	2
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	SSC	Suspended Sediment Concentration	10.1	mg/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	HARD	Hardness as CaCO3	272	mg/l	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	COD	COD	5	mg/L	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	615	uS/cm	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	TEMP_FLD	Temperature (Field) Celsius	17.9	Deg C	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	PH_FLD	pH (Field)	8.44	S.U.	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	DO_FLD	Dissolved Oxygen (field) mg/L	15.15	mg/l	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	711	uS/cm	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$ICP	Aluminum	0.000	mg/L	0.348
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$ICP	Antimony	0.000	mg/L	0.006
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$ICP	Arsenic	0.000	mg/L	0.012
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$ICP	Barium	0.056	mg/L	0.003
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$ICP	Beryllium	0.000	mg/L	0.009
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$ICP	Cadmium	0.000	mg/L	0.012
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$ICP	Calcium	75.510	mg/L	0.066
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$ICP	Chromium	0.000	mg/L	0.006
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$ICP	Cobalt	0.000	mg/L	0.006
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$ICP	Copper	0.000	mg/L	0.006
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$ICP	Iron	0.512	mg/L	0.018
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$ICP	Lead	0.000	mg/L	0.006
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$ICP	Magnesium	22.583	mg/L	0.021
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$ICP	Manganese	0.055	mg/L	0.009
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$ICP	Nickel	0.000	mg/L	0.003
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$ICP	Selenium	0.019	mg/L	0.009
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$ICP	Silver	0.000	mg/L	0.003
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$ICP	Strontium	0.293	mg/L	0.009
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$ICP	Thallium	0.018	mg/L	0.012
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$ICP	Tin	0.000	mg/L	0.006
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$ICP	Vanadium	0.000	mg/L	0.018
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$ICP	Zinc	0.009	mg/L	0.006
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	PB_FU	Lead by Furnace	0.48	ug/L	0.5
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	AS_FU	Arsenic by Furnace	1.17	ug/L	1.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	CU_FU	Copper by Furnace	2.6	ug/L	1
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	NH3	Ammonia as N	0	mg/L	0.5
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	NO3NO2	Nitrate + Nitrite	2.33	mg/L	0.5
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	NO2	Nitrite as N	0.0089	mg/l	0.005
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	NO3	Nitrate as N (calculated)	2.3211	mg/l	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	CHLOROPHYLL	Chlorophyll	2.14	mg/m3	1.00
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	Aldrin	AA	ug/L	.02
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	Beta-BHC	AA	ug/L	.02
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	Delta-BHC	AA	ug/L	.02
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	Chlordane	AA	ug/L	.01
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	4,4-DDD	AA	ug/L	.02
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	4,4-DDT	AA	ug/L	.03
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	4,4-DDE	AA	ug/L	.02
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	Dieldrin	AA	ug/L	.02
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	Endosulfan I	AA	ug/L	.05
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	Endosulfan II	AA	ug/L	.02
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	Endrin	AA	ug/L	.02
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	Heptachlor	AA	ug/L	.02
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	Toxaphene	AA	ug/L	1
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	PCB 1254	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	Surr: Decachlorobiphenyl	106	%	1.08
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$PEST	Surr: Tetrachloro-m-xylene	93	%	0.946
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	Bromochloromethane	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	Chloromethane	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	Bromomethane	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	Chloroethane	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	Acrolein	0	ug/L	100.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	Acrylonitrile	0	ug/L	100.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	Methylene Chloride	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	Chloroform	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	Benzene	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	Trichloroethene	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	Bromodichloromethane	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	Dibromochloromethane	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	Bromoform	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624	Tetrachloroethene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624		Toluene	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624		Toluene-d8	99	ug/L	81
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624		Chlorobenzene	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624		Ethylbenzene	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624		2-Propanone	0	ug/L	60
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$624		2-Butanone	0	ug/L	60
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625		pyridine	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625		2-Fluorophenol	22.5	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625		aniline	0	ug/L	6.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625		Phenol-d6	16.8	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625		Phenol	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625		2-Chlorophenol	0	ug/L	6.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625		n-decane	0	ug/L	6.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625		o-cresol	0	ug/L	6.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625		acetophenone	0	ug/L	6.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625		Hexachloroethane	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625		Nitrobenzene-d5	57.3	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625		p-cresol	0	ug/L	6.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625		Nitrobenzene	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625		Isophorone	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625		Decafluorobiphenyl	41.8	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625		2-Nitrophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Naphthalene	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	1-Fluoronaphthalene	52.9	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	alpha terpineol	0	ug/L	6.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Acenaphthylene	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Acenaphthene	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	4-Nitrophenol	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Diethyl phthalate	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Fluorene	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	2,4,6-Tribromophenol	61.0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Pentachlorophenol	0	ug/L	6.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	n-octadecane	0	ug/L	6.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Phenanthrene	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Anthracene	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	carbazole	0	ug/L	6.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Fluoranthene	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Benzidine	0	ug/L	6.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Pyrene	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Chrysene	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Perylene-D12	50.0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Hexachloroethane	0	ug/L	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	2,3-Dichloroaniline	0	ug/L	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Diethylphthalate	0	ug/L	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Benzo[ghi]perylene	0	ug/L	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	9-Thiabicyclo[3.3.1]non-6-en-2-amine, T	4	ug/L	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	2-Hexene, 2,5,5-trimethyl- T	19	ug/L	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	2-Hexene, 3,5,5-trimethyl- T	5	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	1-Silacyclo-3-pentene T	4	ug/L	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Hexane, 3-methyl-4-methylene- T	2	ug/L	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	2-Butenal, 3-methyl- T	5	ug/L	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Undecane, 3,3-dimethyl- T	3	ug/L	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Pentane, 2,3,4-trimethyl- T	21	ug/L	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Octane, 3-methyl-6-methylene- T	3	ug/L	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	Pentane, 2,3,4-trimethyl- T2	5	ug/L	
AC08613	LM15	Little Miami Watershed	15	10/16/2012	13:00	\$625	TOTAL AMOUNT	622	ug/L	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	MF_CF	Fecal Coliform, Membrane Filter	71	CFU/100mL	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	E-COLI	E.coli (Colilert)	77	MPN	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	TDS	Total Dissolved Solids	450	mg/L	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	SO4	Sulfate	50.0	mg/L	12.5
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	CL	Chloride	85.8	mg/L	1.00
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	TSS	Tot. Suspended Solids	10	mg/L	2
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	SSC	Suspended Sediment Concentration	10.7	mg/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	HARD	Hardness as CaCO3	296	mg/l	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	COD	COD	11	mg/L	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	582	uS/cm	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	TEMP_FLD	Temperature (Field) Celsius	14.21	Deg C	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	PH_FLD	pH (Field)	7.89	S.U.	1.00
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	DO_FLD	Dissolved Oxygen (field) mg/L	9.20	mg/l	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	735	uS/cm	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$ICP	Aluminum	0.000	mg/L	0.348
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$ICP	Antimony	0.000	mg/L	0.006
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$ICP	Arsenic	0.000	mg/L	0.012
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$ICP	Barium	0.057	mg/L	0.003
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$ICP	Beryllium	0.000	mg/L	0.009
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$ICP	Cadmium	0.000	mg/L	0.012
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$ICP	Calcium	77.549	mg/L	0.066
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$ICP	Chromium	0.000	mg/L	0.006
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$ICP	Cobalt	0.000	mg/L	0.006
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$ICP	Copper	0.000	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$ICP	Iron	0.485	mg/L	0.018
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$ICP	Lead	0.000	mg/L	0.006
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$ICP	Magnesium	23.369	mg/L	0.021
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$ICP	Manganese	0.054	mg/L	0.009
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$ICP	Nickel	0.000	mg/L	0.003
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$ICP	Selenium	0.022	mg/L	0.009
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$ICP	Silver	0.000	mg/L	0.003
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$ICP	Strontium	0.289	mg/L	0.009
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$ICP	Thallium	0.017	mg/L	0.012
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$ICP	Tin	0.000	mg/L	0.006
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$ICP	Vanadium	0.000	mg/L	0.018
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$ICP	Zinc	0.007	mg/L	0.006
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	PB_FU	Lead by Furnace	0.47	ug/L	0.5
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	AS_FU	Arsenic by Furnace	1.20	ug/L	1.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	CU_FU	Copper by Furnace	3.0	ug/L	1
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	NH3	Ammonia as N	0	mg/L	0.5
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	NO3NO2	Nitrate + Nitrite	2.26	mg/L	0.5
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	NO2	Nitrite as N	0.0086	mg/l	0.005
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	NO3	Nitrate as N (calculated)	2.2514	mg/l	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	CHLOROPHYLL	Chlorophyll	4.01	mg/m3	1.00
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	Aldrin	AA	ug/L	.02
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	Beta-BHC	AA	ug/L	.02
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	Delta-BHC	AA	ug/L	.02
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	Chlordane	AA	ug/L	.01
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	4,4-DDD	AA	ug/L	.02
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	4,4-DDT	AA	ug/L	.03
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	4,4-DDE	AA	ug/L	.02
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	Dieldrin	AA	ug/L	.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	Endosulfan I	AA	ug/L	.05
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	Endosulfan II	AA	ug/L	.02
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	Endrin	AA	ug/L	.02
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	Heptachlor	AA	ug/L	.02
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	Toxaphene	AA	ug/L	1
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	Surr: Decachlorobiphenyl	84	%	0.838
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$PEST	Surr: Tetrachloro-m-xylene	90	%	0.902
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Bromochloromethane	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Chloromethane	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Bromomethane	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Chloroethane	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Acrolein	0	ug/L	100.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Acrylonitrile	0	ug/L	100.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Methylene Chloride	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Chloroform	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Benzene	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Trichloroethene	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Bromodichloromethane	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Dibromochloromethane	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Bromoform	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Tetrachloroethene	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Toluene	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Toluene-d8	100	ug/L	81
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Chlorobenzene	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Ethylbenzene	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	2-Propanone	0	ug/L	60
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	2-Butanone	0	ug/L	60
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	Dibromofluoromethane (S)	107	ug/L	83
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$624	4-Bromoffffffffluorobethane	101	ug/L	72
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	pyridine	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	2-Fluorophenol	23.3	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	aniline	0	ug/L	6.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Phenol-d6	17.3	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Phenol	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	2-Chlorophenol	0	ug/L	6.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	n-decane	0	ug/L	6.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	o-cresol	0	ug/L	6.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	acetophenone	0	ug/L	6.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Hexachloroethane	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Nitrobenzene-d5	47.2	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	p-cresol	0	ug/L	6.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Nitrobenzene	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Isophorone	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Decafluorobiphenyl	23.7	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	2-Nitrophenol	0	ug/L	6.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Naphthalene	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	1-Fluoronaphthalene	36.5	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	alpha terpineol	0	ug/L	6.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Acenaphthylene	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	2,6-Dinitrotoluene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Acenaphthene	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	4-Nitrophenol	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Diethyl phthalate	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Fluorene	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	2,4,6-Tribromophenol	46.6	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Pentachlorophenol	0	ug/L	6.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	n-octadecane	0	ug/L	6.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Phenanthrene	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Anthracene	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	carbazole	0	ug/L	6.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Fluoranthene	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Benzidine	0	ug/L	6.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Pyrene	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Chrysene	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Perylene-D12	50.0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Benzo(k)fluoranthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Hexachloroethane	0	ug/L	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	2,3-Dichloroaniline	0	ug/L	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Diethylphthalate	0	ug/L	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Benzo[ghi]perylene	0	ug/L	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	2,5-Cyclohexadien-1-one, 3,5-dihydroxy T	3	ug/L	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	2-Hexene, 2,5,5-trimethyl- T	14	ug/L	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	2-Hexene, 3,5,5-trimethyl- T	4	ug/L	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	1-Silacyclo-3-pentene T	3	ug/L	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	2-Butenal, 3-methyl- T	4	ug/L	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	2,4,4-Trimethyl-1-hexene T	3	ug/L	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Decane, 3,3,4-trimethyl- T	16	ug/L	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	1-Hexene, 4,5-dimethyl- T	2	ug/L	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Pentane, 2,3,4-trimethyl- T	4	ug/L	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	Cyclohexane, 1,1'-(1,2-dimethyl-1,2-et T	2	ug/L	
AC08696	LM13	Little Miami Watershed	13 (3261-03)	10/17/2012	09:00	\$625	TOTAL AMOUNT	554	ug/L	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	MF_CF	Fecal Coliform, Membrane Filter	967	CFU/100mL	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	E-COLI	E.coli (Colilert)	1300	MPN	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	TDS	Total Dissolved Solids	450	mg/L	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	SO4	Sulfate	46.2	mg/L	12.5
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	CL	Chloride	83.5	mg/L	1.00
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	TSS	Tot. Suspended Solids	2	mg/L	2
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	SSC	Suspended Sediment Concentration	18.2	mg/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	HARD	Hardness as CaCO3	268	mg/l	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	COD	COD	5	mg/L	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	573	uS/cm	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	TEMP_FLD	Temperature (Field) Celsius	14.15	Deg C	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	PH_FLD	pH (Field)	7.39	S.U.	1.00
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	DO_FLD	Dissolved Oxygen (field) mg/L	8.41	mg/l	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	726	uS/cm	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$ICP	Aluminum	0.000	mg/L	0.348
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$ICP	Antimony	0.000	mg/L	0.006
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$ICP	Arsenic	0.000	mg/L	0.012
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$ICP	Barium	0.056	mg/L	0.003
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$ICP	Beryllium	0.000	mg/L	0.009
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$ICP	Cadmium	0.000	mg/L	0.012
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$ICP	Calcium	77.290	mg/L	0.066
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$ICP	Chromium	0.000	mg/L	0.006
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$ICP	Cobalt	0.000	mg/L	0.006
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$ICP	Copper	0.000	mg/L	0.006
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$ICP	Iron	0.572	mg/L	0.018
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$ICP	Lead	0.000	mg/L	0.006
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$ICP	Magnesium	22.914	mg/L	0.021
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$ICP	Manganese	0.097	mg/L	0.009
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$ICP	Nickel	0.000	mg/L	0.003
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$ICP	Selenium	0.019	mg/L	0.009
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$ICP	Silver	0.000	mg/L	0.003
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$ICP	Strontium	0.289	mg/L	0.009
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$ICP	Thallium	0.015	mg/L	0.012
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$ICP	Tin	0.000	mg/L	0.006
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$ICP	Vanadium	0.000	mg/L	0.018
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$ICP	Zinc	0.010	mg/L	0.006
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	PB_FU	Lead by Furnace	0.84	ug/L	0.5
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	AS_FU	Arsenic by Furnace	1.37	ug/L	1.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	CU_FU	Copper by Furnace	3.3	ug/L	1
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	NH3	Ammonia as N	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	NO3NO2	Nitrate + Nitrite	2.05	mg/L	0.5
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	NO2	Nitrite as N	0.0150	mg/l	0.005
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	NO3	Nitrate as N (calculated)	2.0350	mg/l	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	CHLOROPHYLL	Chlorophyll	4.27	mg/m3	1.00
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	Aldrin	AA	ug/L	.02
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	Beta-BHC	AA	ug/L	.02
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	Delta-BHC	AA	ug/L	.02
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	Chlordane	AA	ug/L	.01
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	4,4-DDD	AA	ug/L	.02
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	4,4-DDT	AA	ug/L	.03
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	4,4-DDE	AA	ug/L	.02
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	Dieldrin	AA	ug/L	.02
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	Endosulfan I	AA	ug/L	.05
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	Endosulfan II	AA	ug/L	.02
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	Endrin	AA	ug/L	.02
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	Heptachlor	AA	ug/L	.02
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	Toxaphene	AA	ug/L	1
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	Surr: Decachlorobiphenyl	83	%	0.829
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$PEST	Surr: Tetrachloro-m-xylene	87	%	0.870

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		Bromochloromethane	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		Chloromethane	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		Vinyl Chloride	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		Bromomethane	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		Chloroethane	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		Acrolein	0	ug/L	100.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		Acrylonitrile	0	ug/L	100.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		Methylene Chloride	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		Chloroform	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		Benzene	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		Trichloroethene	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		Bromoform	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		Toluene	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624		Toluene-d8	99	ug/L	81

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624	Chlorobenzene	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624	Ethylbenzene	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624	2-Propanone	0	ug/L	60
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624	2-Butanone	0	ug/L	60
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624	Dibromofluoromethane (S)	105	ug/L	83
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$624	4-Bromofluorobenzene (S)	99	ug/L	72
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	pyridine	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	2-Fluorophenol	24.9	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	aniline	0	ug/L	6.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Phenol-d6	18.7	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Phenol	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	2-Chlorophenol	0	ug/L	6.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	n-decane	0	ug/L	6.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	o-cresol	0	ug/L	6.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	acetophenone	0	ug/L	6.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Hexachloroethane	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Nitrobenzene-d5	47.1	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	p-cresol	0	ug/L	6.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Nitrobenzene	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Isophorone	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Decafluorobiphenyl	27.3	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	2-Nitrophenol	0	ug/L	6.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	2,4-Dimethylphenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Naphthalene	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	1-Fluoronaphthalene	39.9	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	alpha terpineol	0	ug/L	6.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Acenaphthylene	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Acenaphthene	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	4-Nitrophenol	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Diethyl phthalate	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Fluorene	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	2,4,6-Tribromophenol	50.2	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Pentachlorophenol	0	ug/L	6.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	n-octadecane	0	ug/L	6.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Phenanthrene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Anthracene	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	carbazole	0	ug/L	6.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Fluoranthene	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Benzidine	0	ug/L	6.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Pyrene	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Chrysene	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Perylene-D12	50.0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Hexachloroethane	0	ug/L	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	2,3-Dichloroaniline	0	ug/L	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Diethylphthalate	0	ug/L	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Benzo[ghi]perylene	0	ug/L	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	6,6-Dimethyl-cyclohex-2-en-1-ol T	4	ug/L	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	2-Hexene, 2,5,5-trimethyl- T	17	ug/L	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	2-Hexene, 3,5,5-trimethyl- T	5	ug/L	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	1-Pentene, 3-ethyl-2-methyl- T	4	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	3-Hexene, 2,3-dimethyl- T	2	ug/L	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	2-Butenal, 3-methyl- T	4	ug/L	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Undecane, 3,3-dimethyl- T	2	ug/L	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Decane, 3,3,4-trimethyl- T	19	ug/L	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Octane, 3-methyl-6-methylene- T	2	ug/L	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	Pentane, 2,3,4-trimethyl- T	4	ug/L	
AC08697	LM16	Little Miami Watershed	16 (3261-02)	10/17/2012	09:30	\$625	TOTAL AMOUNT	575	ug/L	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	MF_CF	Fecal Coliform, Membrane Filter	570	CFU/100mL	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	E-COLI	E.coli (Colilert)	649	MPN	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	TDS	Total Dissolved Solids	420	mg/L	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	SO4	Sulfate	48.0	mg/L	12.5
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	CL	Chloride	83.2	mg/L	1.00
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	TSS	Tot. Suspended Solids	12	mg/L	2
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	SSC	Suspended Sediment Concentration	17.8	mg/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	HARD	Hardness as CaCO3	242	mg/l	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	COD	COD	10	mg/L	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	566	uS/cm	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	TEMP_FLD	Temperature (Field) Celsius	14.96	Deg C	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	PH_FLD	pH (Field)	7.92	S.U.	1.00
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	DO_FLD	Dissolved Oxygen (field) mg/L	8.7	mg/l	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	700	uS/cm	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$ICP	Aluminum	0.424	mg/L	0.348
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$ICP	Antimony	0.000	mg/L	0.006
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$ICP	Arsenic	0.000	mg/L	0.012
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$ICP	Barium	0.057	mg/L	0.003
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$ICP	Beryllium	0.000	mg/L	0.009
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$ICP	Cadmium	0.000	mg/L	0.012
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$ICP	Calcium	76.576	mg/L	0.066
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$ICP	Chromium	0.000	mg/L	0.006
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$ICP	Cobalt	0.000	mg/L	0.006
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$ICP	Copper	0.000	mg/L	0.006
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$ICP	Iron	0.756	mg/L	0.018

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$ICP	Lead	0.000	mg/L	0.006
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$ICP	Magnesium	22.533	mg/L	0.021
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$ICP	Manganese	0.094	mg/L	0.009
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$ICP	Nickel	0.000	mg/L	0.003
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$ICP	Selenium	0.014	mg/L	0.009
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$ICP	Silver	0.000	mg/L	0.003
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$ICP	Strontium	0.291	mg/L	0.009
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$ICP	Thallium	0.014	mg/L	0.012
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$ICP	Tin	0.000	mg/L	0.006
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$ICP	Vanadium	0.000	mg/L	0.018
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$ICP	Zinc	0.009	mg/L	0.006
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	PB_FU	Lead by Furnace	0.88	ug/L	0.5
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	AS_FU	Arsenic by Furnace	1.40	ug/L	1.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	CU_FU	Copper by Furnace	3.3	ug/L	1
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	NH3	Ammonia as N	0	mg/L	0.5
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	NO3NO2	Nitrate + Nitrite	2.04	mg/L	0.5
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	TKN	Total Kjeldahl Nitrogen	0.5902	mg/L	0.5
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	NO2	Nitrite as N	0.0166	mg/l	0.005
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	NO3	Nitrate as N (calculated)	2.0234	mg/l	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	Aldrin	AA	ug/L	0.02
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	Chlordane	AA	ug/L	0.1
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	Dieldrin	AA	ug/L	0.02
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	Endosulfan I	AA	ug/L	0.05



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	Endrin	AA	ug/L	0.02
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	Heptachlor	AA	ug/L	0.02
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	Toxaphene	AA	ug/L	1.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	PCB 1016	AA	ug/L	0.5
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	PCB 1221	AA	ug/L	0.5
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	PCB 1232	AA	ug/L	0.5
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	PCB 1242	AA	ug/L	0.5
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	PCB 1248	AA	ug/L	0.5
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	PCB 1254	AA	ug/L	0.5
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	PCB 1260	AA	ug/L	0.5
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	Surr: Decachlorobiphenyl	0	%	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$PEST	Surr: Tetrachloro-m-xylene	0	%	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Bromochloromethane	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Chloromethane	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Vinyl Chloride	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Bromomethane	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Chloroethane	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Acrolein	0	ug/L	100.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Acrylonitrile	0	ug/L	100.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Methylene Chloride	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Chloroform	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	1,1,1-Trichloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Benzene	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Trichloroethene	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Bromodichloromethane	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Dibromochloromethane	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Bromoform	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Tetrachloroethene	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Toluene	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Toluene-d8	100	ug/L	81
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Chlorobenzene	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Ethylbenzene	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	2-Propanone	0	ug/L	60
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	2-Butanone	0	ug/L	60
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	Dibromofluoromethane (S)	105	ug/L	83
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$624	4-Bromofluorobenzene (S)	100	ug/L	72
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	pyridine	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	2-Fluorophenol	35.3	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	aniline	0	ug/L	6.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Phenol-d6	26.2	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Phenol	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	2-Chlorophenol	0	ug/L	6.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	n-decane	0	ug/L	6.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	o-cresol	0	ug/L	6.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	acetophenone	0	ug/L	6.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Hexachloroethane	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Nitrobenzene-d5	68.6	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	p-cresol	0	ug/L	6.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Nitrobenzene	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Isophorone	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Decafluorobiphenyl	43.4	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	2-Nitrophenol	0	ug/L	6.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Naphthalene	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	1-Fluoronaphthalene	56.1	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	alpha terpineol	0	ug/L	6.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Acenaphthylene	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Acenaphthene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	4-Nitrophenol	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Diethyl phthalate	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Fluorene	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	2,4,6-Tribromophenol	67.7	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Pentachlorophenol	0	ug/L	6.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	n-octadecane	0	ug/L	6.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Phenanthrene	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Anthracene	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	carbazole	0	ug/L	6.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Fluoranthene	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Benzidine	0	ug/L	6.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Pyrene	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Chrysene	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Perylene-D12	50.0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Benzo(a)pyrene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Hexachloroethane	0	ug/L	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	2,3-Dichloroaniline	0	ug/L	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Diethylphthalate	0	ug/L	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Benzo[ghi]perylene	0	ug/L	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Cyclopentane, 1-ethyl-1-methyl- T	2	ug/L	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	6,6-Dimethyl-cyclohex-2-en-1-ol T	6	ug/L	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	2-Hexene, 2,5,5-trimethyl- T	23	ug/L	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	2-Hexene, 3,5,5-trimethyl- T	7	ug/L	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	1-Silacyclo-3-pentene T	5	ug/L	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	2-Butenal, 3-methyl- T	6	ug/L	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	2,4,4-Trimethyl-1-hexene T	3	ug/L	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Decane, 3,3,4-trimethyl- T	25	ug/L	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	1-Heptene, 4-methyl- T	3	ug/L	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	Pentane, 2,3,4-trimethyl- T	6	ug/L	
AC08698	LM17	Little Miami Watershed	17 (3261-01)	10/17/2012	10:20	\$625	TOTAL AMOUNT	684	ug/L	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	MF_CF	Fecal Coliform, Membrane Filter	1	CFU/100mL	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	E-COLI	E.coli (Colilert)	5	MPN	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	TDS	Total Dissolved Solids	150	mg/L	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	SO4	Sulfate	13.4	mg/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	CL	Chloride	14.3	mg/L	1.00
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	TSS	Tot. Suspended Solids	4	mg/L	2
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	HARD	Hardness as CaCO3	142	mg/l	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	COD	COD	13	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	213	uS/cm	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	TEMP_FLD	Temperature (Field) Celsius	16.97	Deg C	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	PH_FLD	pH (Field)	7.50	S.U.	1.00
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	DO_FLD	Dissolved Oxygen (field) mg/L	8.75	mg/l	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	252	uS/cm	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$ICP	Aluminum	0.000	mg/L	0.348
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$ICP	Antimony	0.000	mg/L	0.006
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$ICP	Arsenic	0.000	mg/L	0.012
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$ICP	Barium	0.030	mg/L	0.003
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$ICP	Beryllium	0.000	mg/L	0.009
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$ICP	Cadmium	0.000	mg/L	0.012
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$ICP	Calcium	37.152	mg/L	0.066
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$ICP	Chromium	0.000	mg/L	0.006
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$ICP	Cobalt	0.000	mg/L	0.006
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$ICP	Copper	0.000	mg/L	0.006
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$ICP	Iron	0.174	mg/L	0.018
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$ICP	Lead	0.000	mg/L	0.006
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$ICP	Magnesium	9.389	mg/L	0.021
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$ICP	Manganese	0.067	mg/L	0.009
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$ICP	Nickel	0.000	mg/L	0.003
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$ICP	Selenium	0.016	mg/L	0.009
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$ICP	Silver	0.000	mg/L	0.003
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$ICP	Strontium	0.102	mg/L	0.009
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$ICP	Thallium	0.000	mg/L	0.012
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$ICP	Tin	0.000	mg/L	0.006
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$ICP	Vanadium	0.000	mg/L	0.018
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$ICP	Zinc	0.000	mg/L	0.006
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	PB_FU	Lead by Furnace	0.09	ug/L	0.5
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	AS_FU	Arsenic by Furnace	2.10	ug/L	1.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	CU_FU	Copper by Furnace	AA	ug/L	1
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	NH3	Ammonia as N	0	mg/L	0.5
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	TKN	Total Kjeldahl Nitrogen	0.5733	mg/L	0.5
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	NO2	Nitrite as N	0.0096	mg/l	0.005
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	Aldrin	AA	ug/L	0.02
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	Chlordane	AA	ug/L	0.1
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	Dieldrin	AA	ug/L	0.02
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	Endrin	AA	ug/L	0.02
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	Heptachlor	AA	ug/L	0.02
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	Toxaphene	AA	ug/L	1.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	PCB 1016	AA	ug/L	0.5
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	PCB 1221	AA	ug/L	0.5
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	PCB 1232	AA	ug/L	0.5
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	PCB 1242	AA	ug/L	0.5
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	PCB 1248	AA	ug/L	0.5
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	PCB 1254	AA	ug/L	0.5
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	PCB 1260	AA	ug/L	0.5
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	Surr: Decachlorobiphenyl	0	%	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$PEST	Surr: Tetrachloro-m-xylene	0	%	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	Bromochloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	Chloromethane	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	Vinyl Chloride	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	Bromomethane	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	Chloroethane	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	Acrolein	0	ug/L	100.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	Acrylonitrile	0	ug/L	100.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	Methylene Chloride	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	Chloroform	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	Benzene	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	Trichloroethene	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	Bromodichloromethane	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	Dibromochloromethane	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	Bromoform	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	Tetrachloroethene	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	Toluene	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	Toluene-d8	99	ug/L	81
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624	Chlorobenzene	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624		Ethylbenzene	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624		2-Propanone	0	ug/L	60
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624		2-Butanone	0	ug/L	60
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624		Dibromofluoromethane (S)	106	ug/L	83
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$624		4-Bromofluorobenzene (S)	100	ug/L	72
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		pyridine	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		2-Fluorophenol	23.4	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		aniline	0	ug/L	6.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Phenol-d6	16.7	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Phenol	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		2-Chlorophenol	0	ug/L	6.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		n-decane	0	ug/L	6.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		o-cresol	0	ug/L	6.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		acetophenone	0	ug/L	6.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Hexachloroethane	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Nitrobenzene-d5	49.1	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		p-cresol	0	ug/L	6.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Nitrobenzene	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Isophorone	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Decafluorobiphenyl	25.9	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		2-Nitrophenol	0	ug/L	6.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Naphthalene	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		1-Fluoronaphthalene	40.1	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		alpha terpineol	0	ug/L	6.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Acenaphthylene	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Acenaphthene	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		4-Nitrophenol	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Diethyl phthalate	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Fluorene	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		2,4,6-Tribromophenol	45.6	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Pentachlorophenol	0	ug/L	6.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		n-octadecane	0	ug/L	6.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Phenanthrene	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Anthracene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		carbazole	0	ug/L	6.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Fluoranthene	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Benzidine	0	ug/L	6.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Pyrene	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Chrysene	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Perylene-D12	50.0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Hexachloroethane	0	ug/L	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		2,3-Dichloroaniline	0	ug/L	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Diethylphthalate	0	ug/L	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Benzo[ghi]perylene	0	ug/L	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		Cyclohexanone, 2-hydroxy- T	4	ug/L	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		2-Hexene, 3,5,5-trimethyl- T	15	ug/L	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		2-Hexene, 3,5,5-trimethyl- T2	5	ug/L	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		1-Silacyclo-3-pentene T	4	ug/L	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	2	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	4	ug/L	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625	Pentane, 2,3,4-trimethyl- T	2	ug/L	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625	Pentane, 2,3,4-trimethyl- T2	16	ug/L	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625	1-Hexene, 4,5-dimethyl- T	2	ug/L	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625	Pentane, 2,3,4-trimethyl- T3	4	ug/L	
AC08699	LM25	Little Miami Watershed	25	10/17/2012	11:10	\$625	TOTAL AMOUNT	563	ug/L	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	MF_CF	Fecal Coliform, Membrane Filter	107	CFU/100mL	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	E-COLI	E.coli (Colilert)	118	MPN	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	TDS	Total Dissolved Solids	190	mg/L	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	SO4	Sulfate	17.3	mg/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	CL	Chloride	14.4	mg/L	1.00
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	TSS	Tot. Suspended Solids	4	mg/L	2
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	HARD	Hardness as CaCO3	138	mg/l	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	COD	COD	5	mg/L	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	229	uS/cm	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	TEMP_FLD	Temperature (Field) Celsius	15.12	Deg C	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	PH_FLD	pH (Field)	7.60	S.U.	1.00
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	DO_FLD	Dissolved Oxygen (field) mg/L	9.20	mg/l	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	CONDUCTIVITY	Specific Conductivity (uS/cm)	283	uS/cm	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$ICP	Aluminum	0.000	mg/L	0.348
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$ICP	Antimony	0.000	mg/L	0.006
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$ICP	Arsenic	0.000	mg/L	0.012
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$ICP	Barium	0.028	mg/L	0.003
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$ICP	Beryllium	0.000	mg/L	0.009
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$ICP	Cadmium	0.000	mg/L	0.012
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$ICP	Calcium	42.591	mg/L	0.066
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$ICP	Chromium	0.000	mg/L	0.006
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$ICP	Cobalt	0.000	mg/L	0.006
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$ICP	Copper	0.000	mg/L	0.006
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$ICP	Iron	0.109	mg/L	0.018
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$ICP	Lead	0.000	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$ICP	Magnesium	10.355	mg/L	0.021
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$ICP	Manganese	0.036	mg/L	0.009
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$ICP	Nickel	0.000	mg/L	0.003
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$ICP	Selenium	0.012	mg/L	0.009
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$ICP	Silver	0.000	mg/L	0.003
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$ICP	Strontium	0.117	mg/L	0.009
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$ICP	Thallium	0.012	mg/L	0.012
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$ICP	Tin	0.000	mg/L	0.006
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$ICP	Vanadium	0.000	mg/L	0.018
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$ICP	Zinc	0.000	mg/L	0.006
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	PB_FU	Lead by Furnace	0.14	ug/L	0.5
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	AS_FU	Arsenic by Furnace	1.85	ug/L	1.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	CU_FU	Copper by Furnace	1.0	ug/L	1
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	NH3	Ammonia as N	0	mg/L	0.5
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	TKN	Total Kjeldahl Nitrogen	0.5020	mg/L	0.5
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	NO2	Nitrite as N	0.0053	mg/l	0.005
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	Aldrin	AA	ug/L	0.02
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	Chlordane	AA	ug/L	0.01
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	Dieldrin	AA	ug/L	0.02
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	Endosulfan II	AA	ug/L	0.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	Endrin	AA	ug/L	0.02
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	Heptachlor	AA	ug/L	0.02
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	Toxaphene	AA	ug/L	1.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	PCB 1016	AA	ug/L	0.5
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	PCB 1221	AA	ug/L	0.5
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	PCB 1232	AA	ug/L	0.5
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	PCB 1242	AA	ug/L	0.5
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	PCB 1248	AA	ug/L	0.5
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	PCB 1254	AA	ug/L	0.5
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	PCB 1260	AA	ug/L	0.5
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	Surr: Decachlorobiphenyl	0	%	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$PEST	Surr: Tetrachloro-m-xylene	0	%	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624	Bromochloromethane	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624	Chloromethane	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624	Vinyl Chloride	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624	Bromomethane	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624	Chloroethane	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624	Acrolein	0	ug/L	100.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624	Acrylonitrile	0	ug/L	100.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624	Methylene Chloride	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624	Chloroform	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624	Carbon Tetrachloride	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		Benzene	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		Trichloroethene	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		Bromodichloromethane	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		Dibromochloromethane	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		Bromoform	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		Tetrachloroethene	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		Toluene	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		Toluene-d8	99	ug/L	81
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		Chlorobenzene	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		Ethylbenzene	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		2-Propanone	0	ug/L	60
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		2-Butanone	0	ug/L	60
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		Dibromofluoromethane (S)	104	ug/L	83
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$624		4-Bomofluorobenzene (S)	101	ug/L	72
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		pyridine	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		2-Fluorophenol	16.9	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		aniline	0	ug/L	6.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Phenol-d6	13.7	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Phenol	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		2-Chlorophenol	0	ug/L	6.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		n-decane	0	ug/L	6.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		o-cresol	0	ug/L	6.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		acetophenone	0	ug/L	6.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Hexachloroethane	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Nitrobenzene-d5	44.5	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		p-cresol	0	ug/L	6.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Nitrobenzene	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Isophorone	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Decafluorobiphenyl	30.5	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		2-Nitrophenol	0	ug/L	6.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Naphthalene	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		1-Fluoronaphthalene	40.2	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		alpha terpineol	0	ug/L	6.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Acenaphthylene	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Acenaphthene	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		2,4-Dinitrophenol	0	ug/L	6.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		4-Nitrophenol	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Diethyl phthalate	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Fluorene	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		2,4,6-Tribromophenol	34.8	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Pentachlorophenol	0	ug/L	6.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		n-octadecane	0	ug/L	6.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Phenanthrene	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Anthracene	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		carbazole	0	ug/L	6.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Fluoranthene	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Benzidine	0	ug/L	6.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Pyrene	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Chrysene	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Perylene-D12	50.0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Hexachloroethane	0	ug/L	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		2,3-Dichloroaniline	0	ug/L	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Diethylphthalate	0	ug/L	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Benzo[ghi]perylene	0	ug/L	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Cyclopentane, 1,2,3-trimethyl-, (1.alp T	4	ug/L	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		2-Hexene, 2,5,5-trimethyl- T	18	ug/L	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		2-Hexene, 3,5,5-trimethyl- T	5	ug/L	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		1-Silacyclo-3-pentene T	4	ug/L	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Cyclopropane, 1,1,2-trimethyl-3-(2-met T	2	ug/L	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		2-Butenal, 3-methyl- T	5	ug/L	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Carbonic acid, dipentyl ester T	2	ug/L	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Pentane, 2,3,4-trimethyl- T	20	ug/L	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		1-Octene, 3-ethyl- T	2	ug/L	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		Hexane, 3,3,4-trimethyl- T	4	ug/L	
AC08700	LM26	Little Miami Watershed	26	10/17/2012	11:25	\$625		TOTAL AMOUNT	546	ug/L	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30		MF_CF	Fecal Coliform, Membrane Filter	43	CFU/100mL	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30		E-COLI	E.coli (Colilert)	33	MPN	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30		TDS	Total Dissolved Solids	190	mg/L	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30		SO4	Sulfate	17.7	mg/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30		CL	Chloride	15.6	mg/L	1.00
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30		TSS	Tot. Suspended Solids	2	mg/L	2
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30		SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30		HARD	Hardness as CaCO3	144	mg/l	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30		COD	COD	12	mg/L	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	224	uS/cm	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	TEMP_FLD	Temperature (Field) Celsius	14.09	Deg C	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	PH_FLD	pH (Field)	8.15	S.U.	1.00
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	DO_FLD	Dissolved Oxygen (field) mg/L	9.80	mg/l	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	280	uS/cm	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$ICP	Aluminum	0.000	mg/L	0.348
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$ICP	Antimony	0.000	mg/L	0.006
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$ICP	Arsenic	0.000	mg/L	0.012
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$ICP	Barium	0.028	mg/L	0.003
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$ICP	Beryllium	0.000	mg/L	0.009
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$ICP	Cadmium	0.000	mg/L	0.012
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$ICP	Calcium	42.067	mg/L	0.066
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$ICP	Chromium	0.000	mg/L	0.006
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$ICP	Cobalt	0.000	mg/L	0.006
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$ICP	Copper	0.000	mg/L	0.006
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$ICP	Iron	0.129	mg/L	0.018
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$ICP	Lead	0.000	mg/L	0.006
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$ICP	Magnesium	9.954	mg/L	0.021
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$ICP	Manganese	0.042	mg/L	0.009
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$ICP	Nickel	0.000	mg/L	0.003
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$ICP	Selenium	0.012	mg/L	0.009
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$ICP	Silver	0.000	mg/L	0.003
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$ICP	Strontium	0.118	mg/L	0.009
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$ICP	Thallium	0.000	mg/L	0.012
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$ICP	Tin	0.000	mg/L	0.006
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$ICP	Vanadium	0.000	mg/L	0.018
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$ICP	Zinc	0.000	mg/L	0.006
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	PB_FU	Lead by Furnace	0.14	ug/L	0.5
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	AS_FU	Arsenic by Furnace	1.59	ug/L	1.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	CU_FU	Copper by Furnace	1.2	ug/L	1
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	NH3	Ammonia as N	0	mg/L	0.5
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	NO2	Nitrite as N	0.0055	mg/l	0.005
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	Aldrin	AA	ug/L	0.02
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	Alpha-BHC	AA	ug/L	0.02
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	Beta-BHC	AA	ug/L	0.02
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	Delta-BHC	AA	ug/L	0.02
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	Gamma-BHC	AA	ug/L	0.02
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	Chlordane	AA	ug/L	0.1
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	4,4-DDD	AA	ug/L	0.02
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	4,4-DDT	AA	ug/L	0.03
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	4,4-DDE	AA	ug/L	0.02
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	Dieldrin	AA	ug/L	0.02
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	Endosulfan I	AA	ug/L	0.05
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	Endosulfan II	AA	ug/L	0.02
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	Endosulfan sulfate	AA	ug/L	0.05
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	Endrin	AA	ug/L	0.02
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	Endrin aldehyde	AA	ug/L	0.02
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	Heptachlor	AA	ug/L	0.02
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	Heptachlor epoxide	AA	ug/L	0.05
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	Toxaphene	AA	ug/L	1
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	PCB 1016	AA	ug/L	0.5
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	PCB 1221	AA	ug/L	0.5
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	PCB 1232	AA	ug/L	0.5
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	PCB 1242	AA	ug/L	0.5
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	PCB 1248	AA	ug/L	0.5
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	PCB 1254	AA	ug/L	0.5
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	PCB 1260	AA	ug/L	0.5
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	Surr: Decachlorobiphenyl	0	%	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$PEST	Surr: Tetrachloro-m-xylene	0	%	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624	Bromochloromethane	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624	Chloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		Vinyl Chloride	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		Bromomethane	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		Chloroethane	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		Acrolein	0	ug/L	100.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		Acrylonitrile	0	ug/L	100.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		Methylene Chloride	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		Chloroform	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		Benzene	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		Trichloroethene	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		Bromodichloromethane	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		Dibromochloromethane	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		Bromoform	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		Tetrachloroethene	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		Toluene	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		Toluene-d8	99	ug/L	81
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		Chlorobenzene	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		Ethylbenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		2-Propanone	0	ug/L	60
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		2-Butanone	0	ug/L	60
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		Dibromofluoromethane (S)	107	ug/L	83
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$624		4-Bromofluorobenzene (S)	100	ug/L	72
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		pyridine	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		2-Fluorophenol	20.2	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		aniline	0	ug/L	6.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Phenol-d6	15.0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Phenol	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		2-Chlorophenol	0	ug/L	6.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		n-decane	0	ug/L	6.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		o-cresol	0	ug/L	6.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		acetophenone	0	ug/L	6.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Hexachloroethane	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Nitrobenzene-d5	47.2	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		p-cresol	0	ug/L	6.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Nitrobenzene	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Isophorone	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Decafluorobiphenyl	25.6	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		2-Nitrophenol	0	ug/L	6.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		2,4-Dichlorophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	Naphthalene	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	1-Fluoronaphthalene	43.3	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	alpha terpineol	0	ug/L	6.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	Acenaphthylene	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	Acenaphthene	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	4-Nitrophenol	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	Diethyl phthalate	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	Fluorene	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	2,4,6-Tribromophenol	35.6	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	Pentachlorophenol	0	ug/L	6.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	n-octadecane	0	ug/L	6.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	Phenanthrene	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	Anthracene	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625	carbazole	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Fluoranthene	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Benzidine	0	ug/L	6.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Pyrene	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Chrysene	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Perylene-D12	50.0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Hexachloroethane	0	ug/L	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		2,3-Dichloroaniline	0	ug/L	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Diethylphthalate	0	ug/L	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Benzo[ghi]perylene	0	ug/L	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		6,6-Dimethyl-cyclohex-2-en-1-ol T	4	ug/L	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		2-Hexene, 2,5,5-trimethyl- T	19	ug/L	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		2-Hexene, 3,5,5-trimethyl- T	5	ug/L	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		1-Silacyclo-3-pentene T	4	ug/L	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		2,4-Dimethyl-3-hexene(c,t) T	2	ug/L	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		2-Butenal, 3-methyl- T	5	ug/L	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Carbonic acid, dipentyl ester T	2	ug/L	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Pentane, 2,3,4-trimethyl- T	21	ug/L	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		1-Heptene, 4-methyl- T	3	ug/L	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		Hexane, 3,3,4-trimethyl- T	5	ug/L	
AC08701	LM27	Little Miami Watershed	27	10/17/2012	11:30	\$625		TOTAL AMOUNT	556	ug/L	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		MF_CF	Fecal Coliform, Membrane Filter	210	CFU/100mL	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		E-COLI	E.coli (Colilert)	291	MPN	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		TDS	Total Dissolved Solids	150	mg/L	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		SO4	Sulfate	16.7	mg/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		CL	Chloride	16.8	mg/L	1.00
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		TSS	Tot. Suspended Solids	22	mg/L	2
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		SSC	Suspended Sediment Concentration	33.3	mg/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		HARD	Hardness as CaCO3	146	mg/l	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		COD	COD	8	mg/L	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	229	uS/cm	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		TEMP_FLD	Temperature (Field) Celsius	14.99	Deg C	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		PH_FLD	pH (Field)	8.30	S.U.	1.00
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		DO_FLD	Dissolved Oxygen (field) mg/L	10	mg/l	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		CONDUCTIVITY	Specific Conductivity (uS/cm)	283	uS/cm	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		\$ICP	Aluminum	0.000	mg/L	0.348
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		\$ICP	Antimony	0.000	mg/L	0.006
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		\$ICP	Arsenic	0.000	mg/L	0.012
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		\$ICP	Barium	0.028	mg/L	0.003
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		\$ICP	Beryllium	0.000	mg/L	0.009
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		\$ICP	Cadmium	0.000	mg/L	0.012
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		\$ICP	Calcium	43.185	mg/L	0.066
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		\$ICP	Chromium	0.000	mg/L	0.006
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		\$ICP	Cobalt	0.000	mg/L	0.006
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		\$ICP	Copper	0.000	mg/L	0.006
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		\$ICP	Iron	0.267	mg/L	0.018
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		\$ICP	Lead	0.000	mg/L	0.006
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00		\$ICP	Magnesium	10.315	mg/L	0.021

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$ICP	Manganese	0.063	mg/L	0.009
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$ICP	Nickel	0.000	mg/L	0.003
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$ICP	Selenium	0.000	mg/L	0.009
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$ICP	Silver	0.000	mg/L	0.003
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$ICP	Strontium	0.125	mg/L	0.009
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$ICP	Thallium	0.000	mg/L	0.012
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$ICP	Tin	0.000	mg/L	0.006
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$ICP	Vanadium	0.000	mg/L	0.018
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$ICP	Zinc	0.000	mg/L	0.006
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	PB_FU	Lead by Furnace	0.28	ug/L	0.5
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	AS_FU	Arsenic by Furnace	1.68	ug/L	1.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	CU_FU	Copper by Furnace	1.2	ug/L	1
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	NH3	Ammonia as N	0	mg/L	0.5
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	TKN	Total Kjeldahl Nitrogen	0.6948	mg/L	0.5
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	NO2	Nitrite as N	0.0195	mg/l	0.005
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	CHLOROPHYLL	Chlorophyll	3.20	mg/m3	1.00
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	Aldrin	AA	ug/L	.02
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	Beta-BHC	AA	ug/L	.02
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	Delta-BHC	AA	ug/L	.02
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	Chlordane	AA	ug/L	.01
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	4,4-DDD	AA	ug/L	.02
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	4,4-DDT	AA	ug/L	.03
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	4,4-DDE	AA	ug/L	.02
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	Dieldrin	AA	ug/L	.02
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	Endosulfan I	AA	ug/L	.05
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	Endosulfan II	AA	ug/L	.02
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	Endosulfan sulfate	AA	ug/L	.05

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	Endrin	AA	ug/L	.02
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	Heptachlor	AA	ug/L	.02
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	Toxaphene	AA	ug/L	1
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	Surr: Decachlorobiphenyl	80	%	0.804
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$PEST	Surr: Tetrachloro-m-xylene	86	%	0.861
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624	Bromochloromethane	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624	Chloromethane	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624	Bromomethane	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624	Chloroethane	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624	Acrolein	0	ug/L	100.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624	Acrylonitrile	0	ug/L	100.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624	Methylene Chloride	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624	Chloroform	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624	Benzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		Trichloroethene	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		Bromodichloromethane	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		Bromoform	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		Toluene	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		Toluene-d8	99	ug/L	81
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		Chlorobenzene	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		Ethylbenzene	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		2-Propanone	0	ug/L	60
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		2-Butanone	0	ug/L	60
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		Dibromofluoromethane (S)	108	ug/L	83
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$624		4-Bromofluorobenzene (S)	99	ug/L	72
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		pyridine	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		2-Fluorophenol	21.6	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		aniline	0	ug/L	6.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Phenol-d6	16.0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Phenol	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		2-Chlorophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		n-decane	0	ug/L	6.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		o-cresol	0	ug/L	6.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		acetophenone	0	ug/L	6.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Hexachloroethane	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Nitrobenzene-d5	47.3	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		p-cresol	0	ug/L	6.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Nitrobenzene	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Isophorone	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Decafluorobiphenyl	31.7	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		2-Nitrophenol	0	ug/L	6.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Naphthalene	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		1-Fluoronaphthalene	44.8	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		alpha terpineol	0	ug/L	6.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Acenaphthylene	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Acenaphthene	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		4-Nitrophenol	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Diethyl phthalate	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Fluorene	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		2,4,6-Tribromophenol	45.0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Pentachlorophenol	0	ug/L	6.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		n-octadecane	0	ug/L	6.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Phenanthrene	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Anthracene	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		carbazole	0	ug/L	6.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Fluoranthene	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Benzidine	0	ug/L	6.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Pyrene	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Chrysene	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Perylene-D12	50.0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Hexachloroethane	0	ug/L	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		2,3-Dichloroaniline	0	ug/L	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Diethylphthalate	0	ug/L	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Benzo[ghi]perylene	0	ug/L	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		9-Thiabicyclo[3.3.1]non-6-en-2-amine, T	4	ug/L	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		2-Hexene, 2,5,5-trimethyl- T	17	ug/L	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		2-Hexene, 3,5,5-trimethyl- T	5	ug/L	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Cyclopentane, 1-ethyl-1-methyl- T	4	ug/L	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		3-Hexene, 2,3-dimethyl- T	2	ug/L	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Cyclopentane, 1,2,3,4,5-pentamethyl- T	5	ug/L	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		1-Hexene, 3,4,5-trimethyl- T	2	ug/L	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Pentane, 2,3,4-trimethyl- T	19	ug/L	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Pentane, 3-ethyl- T	2	ug/L	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		Pentane, 2,3,4-trimethyl- T2	4	ug/L	
AC08702	LM28	Little Miami Watershed	28	10/17/2012	12:00	\$625		TOTAL AMOUNT	570	ug/L	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	MF_CF		Fecal Coliform, Membrane Filter	29	CFU/100mL	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	E-COLI		E.coli (Colilert)	54	MPN	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	TDS		Total Dissolved Solids	190	mg/L	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	BOD		Biochemical Oxygen Demand	2	mg/L	2
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	SO4		Sulfate	23.5	mg/L	12.5
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	CL		Chloride	26.8	mg/L	1.00
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	TSS		Tot. Suspended Solids	44	mg/L	2
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	SSC		Suspended Sediment Concentration	14.0	mg/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	HARD		Hardness as CaCO3	156	mg/l	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	COD		COD	5	mg/L	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	CONDUCTIVITY-R		Relative Conductivity (uS/cm)	313	uS/cm	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	TEMP_FLD		Temperature (Field) Celsius	15.67	Deg C	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	PH_FLD	pH (Field)	7.20	S.U.	1.00
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	DO_FLD	Dissolved Oxygen (field) mg/L	8.00	mg/l	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	378	uS/cm	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$ICP	Aluminum	0.000	mg/L	0.348
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$ICP	Antimony	0.000	mg/L	0.006
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$ICP	Arsenic	0.000	mg/L	0.012
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$ICP	Barium	0.028	mg/L	0.003
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$ICP	Beryllium	0.000	mg/L	0.009
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$ICP	Cadmium	0.000	mg/L	0.012
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$ICP	Calcium	50.344	mg/L	0.066
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$ICP	Chromium	0.000	mg/L	0.006
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$ICP	Cobalt	0.000	mg/L	0.006
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$ICP	Copper	0.000	mg/L	0.006
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$ICP	Iron	0.400	mg/L	0.018
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$ICP	Lead	0.000	mg/L	0.006
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$ICP	Magnesium	11.299	mg/L	0.021
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$ICP	Manganese	0.058	mg/L	0.009
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$ICP	Nickel	0.000	mg/L	0.003
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$ICP	Selenium	0.016	mg/L	0.009
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$ICP	Silver	0.000	mg/L	0.003
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$ICP	Strontium	0.150	mg/L	0.009
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$ICP	Thallium	0.000	mg/L	0.012
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$ICP	Tin	0.000	mg/L	0.006
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$ICP	Vanadium	0.000	mg/L	0.018
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$ICP	Zinc	0.011	mg/L	0.006
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	PB_FU	Lead by Furnace	0.40	ug/L	0.5
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	AS_FU	Arsenic by Furnace	1.73	ug/L	1.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	CU_FU	Copper by Furnace	2.0	ug/L	1
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	NH3	Ammonia as N	0	mg/L	0.5
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	NO3NO2	Nitrate + Nitrite	2.47	mg/L	0.5
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	TKN	Total Kjeldahl Nitrogen	0.5873	mg/L	0.5
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	TKP	Total Kjeldahl Phosphorus	0.5705	mg/L	0.5



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	NO2	Nitrite as N	0.0151	mg/l	0.005
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	NO3	Nitrate as N (calculated)	2.4549	mg/l	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	CHLOROPHYLL	Chlorophyll	2.67	mg/m3	1.00
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	Aldrin	AA	ug/L	.02
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	Beta-BHC	AA	ug/L	.02
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	Delta-BHC	AA	ug/L	.02
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	Chlordane	AA	ug/L	.01
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	4,4-DDD	AA	ug/L	.02
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	4,4-DDT	AA	ug/L	.03
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	4,4-DDE	AA	ug/L	.02
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	Dieldrin	AA	ug/L	.02
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	Endosulfan I	AA	ug/L	.05
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	Endosulfan II	AA	ug/L	.02
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	Endrin	AA	ug/L	.02
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	Heptachlor	AA	ug/L	.02
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	Toxaphene	AA	ug/L	1
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	PCB 1016	AA	ug/L	0.5
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	PCB 1221	AA	ug/L	0.5
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	PCB 1232	AA	ug/L	0.5
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	PCB 1242	AA	ug/L	0.5
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	PCB 1248	AA	ug/L	0.5
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	PCB 1254	AA	ug/L	0.5
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	PCB 1260	AA	ug/L	0.5
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	Surr: Decachlorobiphenyl	73	%	0.733
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$PEST	Surr: Tetrachloro-m-xylene	77	%	0.769
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Bromochloromethane	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Chloromethane	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Vinyl Chloride	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Bromomethane	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Chloroethane	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Acrolein	0	ug/L	100.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Acrylonitrile	0	ug/L	100.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Methylene Chloride	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Chloroform	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Benzene	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Trichloroethene	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Bromodichloromethane	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Dibromochloromethane	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Bromoform	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Tetrachloroethene	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Toluene	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Toluene-d8	101	ug/L	81
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Chlorobenzene	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Ethylbenzene	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Bromofluorobenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	2-Propanone	0	ug/L	60
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	2-Butanone	0	ug/L	60
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	Dibromofluoromethane (S)	110	ug/L	83
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$624	4-Bromofluorobenzene (S)	103	ug/L	72
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	pyridine	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	2-Fluorophenol	22.9	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	aniline	0	ug/L	6.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Phenol-d6	19.5	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Phenol	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	2-Chlorophenol	0	ug/L	6.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	n-decane	0	ug/L	6.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	o-cresol	0	ug/L	6.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	acetophenone	0	ug/L	6.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Hexachloroethane	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Nitrobenzene-d5	67.5	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	p-cresol	0	ug/L	6.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Nitrobenzene	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Isophorone	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Decafluorobiphenyl	52.5	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	2-Nitrophenol	0	ug/L	6.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Naphthalene	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	1-Fluoronaphthalene	59.9	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	alpha terpineol	0	ug/L	6.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Acenaphthylene	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Acenaphthene	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	4-Nitrophenol	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Diethyl phthalate	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Fluorene	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	2,4,6-Tribromophenol	51.5	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Pentachlorophenol	0	ug/L	6.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	n-octadecane	0	ug/L	6.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Phenanthrene	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Anthracene	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	carbazole	0	ug/L	6.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Di-n-butyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Fluoranthene	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Benzidine	0	ug/L	6.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Pyrene	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Chrysene	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Perylene-D12	50.0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Hexachloroethane	0	ug/L	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	2,3-Dichloroaniline	0	ug/L	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Diethylphthalate	0	ug/L	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Benzo[ghi]perylene	0	ug/L	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	6,6-Dimethyl-cyclohex-2-en-1-ol T	5	ug/L	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	2-Hexene, 2,5,5-trimethyl- T	20	ug/L	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	2-Hexene, 3,5,5-trimethyl- T	6	ug/L	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	1-Silacyclo-3-pentene T	5	ug/L	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	16	ug/L	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	3,6,6-Trimethyl-cyclohex-2-enol T	6	ug/L	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Carbonic acid, dipentyl ester T	3	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Decane, 3,3,4-trimethyl- T	23	ug/L	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	1-Hexene, 4,5-dimethyl- T	3	ug/L	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	Pentane, 2,3,4-trimethyl- T	6	ug/L	
AC08752	LM29	Little Miami Watershed	29	10/18/2012	08:40	\$625	TOTAL AMOUNT	666	ug/L	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	MF_CF	Fecal Coliform, Membrane Filter	79	CFU/100mL	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	E-COLI	E.coli (Colilert)	111	MPN	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	TDS	Total Dissolved Solids	250	mg/L	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	SO4	Sulfate	35.8	mg/L	12.5
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	CL	Chloride	25.0	mg/L	1.00
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	TSS	Tot. Suspended Solids	28	mg/L	2
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	SSC	Suspended Sediment Concentration	17.3	mg/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	HARD	Hardness as CaCO3	150	mg/l	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	COD	COD	15	mg/L	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	301	uS/cm	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	TEMP_FLD	Temperature (Field) Celsius	15.24	Deg C	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	PH_FLD	pH (Field)	7.60	S.U.	1.00
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	DO_FLD	Dissolved Oxygen (field) mg/L	8.9	mg/l	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	CONDUCTIVITY	Specific Conductivity (uS/cm)	370	uS/cm	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$ICP	Aluminum	0.000	mg/L	0.348
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$ICP	Antimony	0.000	mg/L	0.006
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$ICP	Arsenic	0.000	mg/L	0.012
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$ICP	Barium	0.029	mg/L	0.003
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$ICP	Beryllium	0.000	mg/L	0.009
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$ICP	Cadmium	0.000	mg/L	0.012
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$ICP	Calcium	49.316	mg/L	0.066
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$ICP	Chromium	0.000	mg/L	0.006
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$ICP	Cobalt	0.000	mg/L	0.006
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$ICP	Copper	0.000	mg/L	0.006
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$ICP	Iron	0.489	mg/L	0.018
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$ICP	Lead	0.000	mg/L	0.006
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$ICP	Magnesium	11.029	mg/L	0.021
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$ICP	Manganese	0.097	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$ICP	Nickel	0.000	mg/L	0.003
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$ICP	Selenium	0.014	mg/L	0.009
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$ICP	Silver	0.000	mg/L	0.003
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$ICP	Strontium	0.146	mg/L	0.009
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$ICP	Thallium	0.016	mg/L	0.012
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$ICP	Tin	0.000	mg/L	0.006
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$ICP	Vanadium	0.000	mg/L	0.018
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$ICP	Zinc	0.015	mg/L	0.006
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	PB_FU	Lead by Furnace	0.66	ug/L	0.5
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	AS_FU	Arsenic by Furnace	1.59	ug/L	1.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	CU_FU	Copper by Furnace	2.6	ug/L	1
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	NH3	Ammonia as N	0	mg/L	0.5
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	NO3NO2	Nitrate + Nitrite	2.02	mg/L	0.5
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	NO2	Nitrite as N	0.0108	mg/l	0.005
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	NO3	Nitrate as N (calculated)	2.0092	mg/l	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	Aldrin	AA	ug/L	.02
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	Beta-BHC	AA	ug/L	.02
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	Delta-BHC	AA	ug/L	.02
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	Chlordane	AA	ug/L	.01
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	4,4-DDD	AA	ug/L	.02
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	4,4-DDT	AA	ug/L	.03
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	4,4-DDE	AA	ug/L	.02
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	Dieldrin	AA	ug/L	.02
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	Endosulfan I	AA	ug/L	.05
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	Endosulfan II	AA	ug/L	.02
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	Endrin	AA	ug/L	.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	Heptachlor	AA	ug/L	.02
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	Toxaphene	AA	ug/L	1
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	PCB 1016	AA	ug/L	0.5
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	PCB 1221	AA	ug/L	0.5
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	PCB 1232	AA	ug/L	0.5
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	PCB 1242	AA	ug/L	0.5
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	PCB 1248	AA	ug/L	0.5
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	PCB 1254	AA	ug/L	0.5
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	PCB 1260	AA	ug/L	0.5
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	Surr: Decachlorobiphenyl	81	%	0.814
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$PEST	Surr: Tetrachloro-m-xylene	92	%	0.920
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Bromochloromethane	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Chloromethane	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Vinyl Chloride	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Bromomethane	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Chloroethane	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Acrolein	0	ug/L	100.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Acrylonitrile	0	ug/L	100.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Methylene Chloride	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Chloroform	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Benzene	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Trichloroethene	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Bromodichloromethane	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Dibromochloromethane	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Bromoform	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Tetrachloroethene	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Toluene	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Toluene-d8	100	ug/L	81
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Chlorobenzene	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Ethylbenzene	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	2-Propanone	0	ug/L	60
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	2-Butanone	0	ug/L	60
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	Dibromofluoromethane (S)	105	ug/L	83
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$624	4-Bromofluorobenzene (S)	100	ug/L	72
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	pyridine	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	2-Fluorophenol	21.8	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	aniline	0	ug/L	6.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Phenol-d6	16.7	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Phenol	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	2-Chlorophenol	0	ug/L	6.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	n-decane	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	o-cresol	0	ug/L	6.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	acetophenone	0	ug/L	6.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Hexachloroethane	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Nitrobenzene-d5	55.2	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	p-cresol	0	ug/L	6.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Nitrobenzene	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Isophorone	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Decafluorobiphenyl	49.4	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	2-Nitrophenol	0	ug/L	6.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Naphthalene	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	1-Fluoronaphthalene	54.0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	alpha terpineol	0	ug/L	6.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Acenaphthylene	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Acenaphthene	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	4-Nitrophenol	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	2,4-Dinitrotoluene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Diethyl phthalate	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Fluorene	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	2,4,6-Tribromophenol	37.7	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Pentachlorophenol	0	ug/L	6.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	n-octadecane	0	ug/L	6.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Phenanthrene	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Anthracene	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	carbazole	0	ug/L	6.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Fluoranthene	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Benzidine	0	ug/L	6.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Pyrene	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Chrysene	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Perylene-D12	50.0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Benzo(ghi)perylene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Hexachloroethane	0	ug/L	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	2,3-Dichloroaniline	0	ug/L	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Diethylphthalate	0	ug/L	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Benzo[ghi]perylene	0	ug/L	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	6,6-Dimethyl-cyclohex-2-en-1-ol T	5	ug/L	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	2-Hexene, 2,5,5-trimethyl- T	17	ug/L	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	2-Hexene, 3,5,5-trimethyl- T	5	ug/L	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	1-Silacyclo-3-pentene T	4	ug/L	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Hydrazine, 1,1-bis(1-methylethyl)- T	9	ug/L	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	2-Butenal, 3-methyl- T	5	ug/L	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Pentane, 2,3,4-trimethyl- T	3	ug/L	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Pentane, 2,3,4-trimethyl- T2	19	ug/L	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Octane, 3-methyl-6-methylene- T	2	ug/L	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	Pentane, 2,3,4-trimethyl- T3	5	ug/L	
AC08753	LM30	Little Miami Watershed	30	10/18/2012	08:55	\$625	TOTAL AMOUNT	609	ug/L	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	MF_CF	Fecal Coliform, Membrane Filter	64	CFU/100mL	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	E-COLI	E.coli (Colilert)	60	MPN	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	TDS	Total Dissolved Solids	230	mg/L	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	SO4	Sulfate	26.2	mg/L	12.5
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	CL	Chloride	25.4	mg/L	1.00
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	TSS	Tot. Suspended Solids	10	mg/L	2
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	SSC	Suspended Sediment Concentration	8.5	mg/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	HARD	Hardness as CaCO3	184	mg/l	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	COD	COD	22	mg/L	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	319	uS/cm	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	TEMP_FLD	Temperature (Field) Celsius	14.91	Deg C	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	PH_FLD	pH (Field)	7.30	S.U.	1.00

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	DO_FLD	Dissolved Oxygen (field) mg/L	8.5	mg/l	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	CONDUCTIVITY	Specific Conductivity (uS/cm)	395	uS/cm	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$ICP	Aluminum	0.000	mg/L	0.348
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$ICP	Antimony	0.000	mg/L	0.006
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$ICP	Arsenic	0.000	mg/L	0.012
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$ICP	Barium	0.032	mg/L	0.003
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$ICP	Beryllium	0.000	mg/L	0.009
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$ICP	Cadmium	0.000	mg/L	0.012
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$ICP	Calcium	55.085	mg/L	0.066
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$ICP	Chromium	0.000	mg/L	0.006
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$ICP	Cobalt	0.000	mg/L	0.006
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$ICP	Copper	0.000	mg/L	0.006
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$ICP	Iron	0.364	mg/L	0.018
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$ICP	Lead	0.000	mg/L	0.006
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$ICP	Magnesium	11.904	mg/L	0.021
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$ICP	Manganese	0.056	mg/L	0.009
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$ICP	Nickel	0.000	mg/L	0.003
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$ICP	Selenium	0.029	mg/L	0.009
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$ICP	Silver	0.000	mg/L	0.003
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$ICP	Strontium	0.162	mg/L	0.009
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$ICP	Thallium	0.032	mg/L	0.012
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$ICP	Tin	0.000	mg/L	0.006
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$ICP	Vanadium	0.000	mg/L	0.018
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$ICP	Zinc	0.000	mg/L	0.006
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	PB_FU	Lead by Furnace	0.28	ug/L	0.5
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	AS_FU	Arsenic by Furnace	1.56	ug/L	1.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	CU_FU	Copper by Furnace	1.8	ug/L	1
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	NH3	Ammonia as N	0	mg/L	0.5
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	NO3NO2	Nitrate + Nitrite	1.52	mg/L	0.5
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	NO2	Nitrite as N	0.0114	mg/l	0.005

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	NO3	Nitrate as N (calculated)	1.5086	mg/l	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	Aldrin	AA	ug/L	.02
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	Beta-BHC	AA	ug/L	.02
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	Delta-BHC	AA	ug/L	.02
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	Chlordane	AA	ug/L	.01
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	4,4-DDD	AA	ug/L	.02
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	4,4-DDT	AA	ug/L	.03
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	4,4-DDE	AA	ug/L	.02
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	Dieldrin	AA	ug/L	.02
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	Endosulfan I	AA	ug/L	.05
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	Endosulfan II	AA	ug/L	.02
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	Endrin	AA	ug/L	.02
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	Heptachlor	AA	ug/L	.02
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	Toxaphene	AA	ug/L	1
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	PCB 1016	AA	ug/L	0.5
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	PCB 1221	AA	ug/L	0.5
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	PCB 1232	AA	ug/L	0.5
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	PCB 1242	AA	ug/L	0.5
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	PCB 1248	AA	ug/L	0.5
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	PCB 1254	AA	ug/L	0.5
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	PCB 1260	AA	ug/L	0.5
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	Surr: Decachlorobiphenyl	75	%	0.749
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$PEST	Surr: Tetrachloro-m-xylene	87	%	0.868
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	Bromochloromethane	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	Chloromethane	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	Vinyl Chloride	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	Bromomethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	Chloroethane	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	Acrolein	0	ug/L	100.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	Acrylonitrile	0	ug/L	100.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	Methylene Chloride	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	Chloroform	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	Benzene	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	Trichloroethene	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	Bromodichloromethane	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	Dibromochloromethane	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	Bromoform	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	Tetrachloroethene	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	Toluene	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	Toluene-d8	99	ug/L	81
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	Chlorobenzene	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	Ethylbenzene	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	1,3-Dichlorobenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	2-Propanone	0	ug/L	60
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$624	2-Butanone	0	ug/L	60
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	pyridine	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	2-Fluorophenol	29.6	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	aniline	0	ug/L	6.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Phenol-d6	22.5	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Phenol	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	2-Chlorophenol	0	ug/L	6.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	n-decane	0	ug/L	6.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	o-cresol	0	ug/L	6.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	acetophenone	0	ug/L	6.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Hexachloroethane	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Nitrobenzene-d5	62.9	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	p-cresol	0	ug/L	6.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Nitrobenzene	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Isophorone	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Decafluorobiphenyl	46.8	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	2-Nitrophenol	0	ug/L	6.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Naphthalene	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	1-Fluoronaphthalene	54.1	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	alpha terpineol	0	ug/L	6.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Acenaphthylene	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Acenaphthene	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	4-Nitrophenol	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Diethyl phthalate	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Fluorene	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	2,4,6-Tribromophenol	53.0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Pentachlorophenol	0	ug/L	6.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	n-octadecane	0	ug/L	6.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Phenanthrene	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Anthracene	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	carbazole	0	ug/L	6.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Fluoranthene	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Benzidine	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Pyrene	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Chrysene	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Perylene-D12	50.0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Hexachloroethane	0	ug/L	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	2,3-Dichloroaniline	0	ug/L	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Diethylphthalate	0	ug/L	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Benzo[ghi]perylene	0	ug/L	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	6,6-Dimethyl-cyclohex-2-en-1-ol T	5	ug/L	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	2-Hexene, 3,5,5-trimethyl- T	17	ug/L	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	2-Hexene, 3,5,5-trimethyl- T2	6	ug/L	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	1-(1-Methyl-cyclopentyl)-ethanone T	5	ug/L	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	20	ug/L	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	2-Butenal, 3-methyl- T	5	ug/L	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	2,4,4-Trimethyl-1-hexene T	3	ug/L	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Decane, 3,3,4-trimethyl- T	19	ug/L	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	1-Hexene, 4,5-dimethyl- T	2	ug/L	
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	Pentane, 2,3,4-trimethyl- T	5	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08754	LM31	Little Miami Watershed	31	10/18/2012	09:25	\$625	TOTAL AMOUNT	656	ug/L	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	MF_CF	Fecal Coliform, Membrane Filter	1400	CFU/100mL	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	E-COLI	E.coli (Colilert)	2420	MPN	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	TDS	Total Dissolved Solids	230	mg/L	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	SO4	Sulfate	37.8	mg/L	12.5
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	CL	Chloride	37.0	mg/L	1.00
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	TSS	Tot. Suspended Solids	6	mg/L	2
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	SSC	Suspended Sediment Concentration	8.9	mg/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	HARD	Hardness as CaCO3	206	mg/l	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	COD	COD	8	mg/L	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	385	uS/cm	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	TEMP_FLD	Temperature (Field) Celsius	15.42	Deg C	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	PH_FLD	pH (Field)	7.50	S.U.	1.00
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	DO_FLD	Dissolved Oxygen (field) mg/L	8.50	mg/l	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	471	uS/cm	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$ICP	Aluminum	0.000	mg/L	0.348
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$ICP	Antimony	0.000	mg/L	0.006
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$ICP	Arsenic	0.000	mg/L	0.012
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$ICP	Barium	0.031	mg/L	0.003
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$ICP	Beryllium	0.000	mg/L	0.009
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$ICP	Cadmium	0.000	mg/L	0.012
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$ICP	Calcium	59.206	mg/L	0.066
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$ICP	Chromium	0.000	mg/L	0.006
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$ICP	Cobalt	0.000	mg/L	0.006
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$ICP	Copper	0.000	mg/L	0.006
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$ICP	Iron	0.353	mg/L	0.018
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$ICP	Lead	0.000	mg/L	0.006
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$ICP	Magnesium	12.910	mg/L	0.021
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$ICP	Manganese	0.055	mg/L	0.009
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$ICP	Nickel	0.000	mg/L	0.003
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$ICP	Selenium	0.019	mg/L	0.009
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$ICP	Silver	0.000	mg/L	0.003

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$ICP	Strontium	0.184	mg/L	0.009
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$ICP	Thallium	0.021	mg/L	0.012
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$ICP	Tin	0.000	mg/L	0.006
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$ICP	Vanadium	0.000	mg/L	0.018
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$ICP	Zinc	0.010	mg/L	0.006
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	PB_FU	Lead by Furnace	0.30	ug/L	0.5
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	AS_FU	Arsenic by Furnace	1.37	ug/L	1.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	CU_FU	Copper by Furnace	3.1	ug/L	1
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	NH3	Ammonia as N	0	mg/L	0.5
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	NO3NO2	Nitrate + Nitrite	3.05	mg/L	0.5
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	TKP	Total Kjeldahl Phosphorus	0.6421	mg/L	0.5
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	NO2	Nitrite as N	0.0117	mg/l	0.005
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	NO3	Nitrate as N (calculated)	3.0383	mg/l	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	Aldrin	AA	ug/L	.02
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	Beta-BHC	AA	ug/L	.02
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	Delta-BHC	AA	ug/L	.02
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	Chlordane	AA	ug/L	.01
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	4,4-DDD	AA	ug/L	.02
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	4,4-DDT	AA	ug/L	.03
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	4,4-DDE	AA	ug/L	.02
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	Dieldrin	AA	ug/L	.02
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	Endosulfan I	AA	ug/L	.05
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	Endosulfan II	AA	ug/L	.02
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	Endrin	AA	ug/L	.02
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	Heptachlor	AA	ug/L	.02
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	Heptachlor epoxide	AA	ug/L	.05

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	Toxaphene	AA	ug/L	1
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	PCB 1016	AA	ug/L	0.5
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	PCB 1221	AA	ug/L	0.5
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	PCB 1232	AA	ug/L	0.5
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	PCB 1242	AA	ug/L	0.5
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	PCB 1248	AA	ug/L	0.5
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	PCB 1254	AA	ug/L	0.5
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	PCB 1260	AA	ug/L	0.5
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	Surr: Decachlorobiphenyl	86	%	0.859
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$PEST	Surr: Tetrachloro-m-xylene	93	%	0.926
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Bromochloromethane	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Chloromethane	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Vinyl Chloride	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Bromomethane	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Chloroethane	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Acrolein	0	ug/L	100.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Acrylonitrile	0	ug/L	100.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Methylene Chloride	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Chloroform	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Benzene	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Trichloroethene	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Bromodichloromethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Dibromochloromethane	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Bromoform	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Tetrachloroethene	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Toluene	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Toluene-d8	94	ug/L	81
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Chlorobenzene	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Ethylbenzene	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	2-Propanone	0	ug/L	60
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	2-Butanone	0	ug/L	60
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	Dibromofluoromethane (S)	112	ug/L	83
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$624	4-Bromofluorobenzene (S)	99	ug/L	72
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	pyridine	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	2-Fluorophenol	29.0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	aniline	0	ug/L	6.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Phenol-d6	20.6	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Phenol	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	2-Chlorophenol	0	ug/L	6.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	n-decane	0	ug/L	6.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	o-cresol	0	ug/L	6.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	acetophenone	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Hexachloroethane	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Nitrobenzene-d5	63.6	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	p-cresol	0	ug/L	6.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Nitrobenzene	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Isophorone	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Decafluorobiphenyl	54.6	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	2-Nitrophenol	0	ug/L	6.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Naphthalene	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	1-Fluoronaphthalene	61.5	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	alpha terpineol	0	ug/L	6.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Acenaphthylene	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Acenaphthene	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	4-Nitrophenol	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Diethyl phthalate	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Fluorene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	2,4,6-Tribromophenol	57.5	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Pentachlorophenol	0	ug/L	6.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	n-octadecane	0	ug/L	6.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Phenanthrene	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Anthracene	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	carbazole	0	ug/L	6.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Fluoranthene	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Benzidine	0	ug/L	6.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Pyrene	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Chrysene	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Perylene-D12	50.0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Hexachloroethane	0	ug/L	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	2,3-Dichloroaniline	0	ug/L	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Diethylphthalate	0	ug/L	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Benzo[ghi]perylene	0	ug/L	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	2-Hexene, 2,5,5-trimethyl- T	5	ug/L	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	2-Hexene, 2,5,5-trimethyl- T2	21	ug/L	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	2-Hexene, 3,5,5-trimethyl- T	6	ug/L	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	21	ug/L	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	6	ug/L	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	1-Butanol, 3-methyl-, carbonate (2:1) T	5	ug/L	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Pentane, 2,3,4-trimethyl- T	23	ug/L	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Pentane, 2,3,4-trimethyl- T2	6	ug/L	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Propanoic acid, 2-methyl-, 2,2-dimethyl T	11	ug/L	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	Propanoic acid, 2-methyl-, 3-hydroxy-2 T	13	ug/L	
AC08755	LM32	Little Miami Watershed	32	10/18/2012	09:40	\$625	TOTAL AMOUNT	704	ug/L	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	MF_CF	Fecal Coliform, Membrane Filter	86	CFU/100mL	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	E-COLI	E.coli (Colilert)	81	MPN	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	TDS	Total Dissolved Solids	380	mg/L	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	SO4	Sulfate	43.8	mg/L	12.5
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	CL	Chloride	50.6	mg/L	1.00
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	TSS	Tot. Suspended Solids	12	mg/L	2
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	SSC	Suspended Sediment Concentration	7.9	mg/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	HARD	Hardness as CaCO3	202	mg/l	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	COD	COD	10	mg/L	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	465	uS/cm	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	TEMP_FLD	Temperature (Field) Celsius	15.60	Deg C	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	PH_FLD	pH (Field)	7.47	S.U.	1.00
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	DO_FLD	Dissolved Oxygen (field) mg/L	7.95	mg/l	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	569	uS/cm	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$ICP	Aluminum	0.000	mg/L	0.348

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$ICP	Antimony	0.000	mg/L	0.006
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$ICP	Arsenic	0.000	mg/L	0.012
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$ICP	Barium	0.037	mg/L	0.003
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$ICP	Beryllium	0.000	mg/L	0.009
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$ICP	Cadmium	0.000	mg/L	0.012
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$ICP	Calcium	68.661	mg/L	0.066
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$ICP	Chromium	0.000	mg/L	0.006
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$ICP	Cobalt	0.000	mg/L	0.006
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$ICP	Copper	0.008	mg/L	0.006
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$ICP	Iron	0.405	mg/L	0.018
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$ICP	Lead	0.000	mg/L	0.006
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$ICP	Magnesium	14.801	mg/L	0.021
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$ICP	Manganese	0.090	mg/L	0.009
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$ICP	Nickel	0.000	mg/L	0.003
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$ICP	Selenium	0.020	mg/L	0.009
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$ICP	Silver	0.000	mg/L	0.003
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$ICP	Strontium	0.229	mg/L	0.009
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$ICP	Thallium	0.019	mg/L	0.012
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$ICP	Tin	0.000	mg/L	0.006
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$ICP	Vanadium	0.000	mg/L	0.018
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$ICP	Zinc	0.015	mg/L	0.006
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	PB_FU	Lead by Furnace	0.34	ug/L	0.5
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	AS_FU	Arsenic by Furnace	1.51	ug/L	1.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	CU_FU	Copper by Furnace	4.4	ug/L	1
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	NH3	Ammonia as N	0	mg/L	0.5
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	NO3NO2	Nitrate + Nitrite	5.14	mg/L	0.5
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	TKP	Total Kjeldahl Phosphorus	1.028	mg/L	0.5
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	NO2	Nitrite as N	0.0175	mg/l	0.005
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	NO3	Nitrate as N (calculated)	5.1225	mg/l	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	CHLOROPHYLL	Chlorophyll	1.60	mg/m3	1.00
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	Aldrin	AA	ug/L	.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	Beta-BHC	AA	ug/L	.02
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	Delta-BHC	AA	ug/L	.02
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	Chlordane	AA	ug/L	.01
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	4,4-DDD	AA	ug/L	.02
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	4,4-DDT	AA	ug/L	.03
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	4,4-DDE	AA	ug/L	.02
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	Dieldrin	AA	ug/L	.02
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	Endosulfan I	AA	ug/L	.05
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	Endosulfan II	AA	ug/L	.02
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	Endrin	AA	ug/L	.02
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	Heptachlor	AA	ug/L	.02
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	Toxaphene	AA	ug/L	1
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	PCB 1016	AA	ug/L	0.5
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	PCB 1221	AA	ug/L	0.5
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	PCB 1232	AA	ug/L	0.5
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	PCB 1242	AA	ug/L	0.5
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	PCB 1248	AA	ug/L	0.5
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	PCB 1254	AA	ug/L	0.5
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	PCB 1260	AA	ug/L	0.5
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	Surr: Decachlorobiphenyl	81	%	0.805
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$PEST	Surr: Tetrachloro-m-xylene	94	%	0.936
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624	Bromochloromethane	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624	Chloromethane	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624	Vinyl Chloride	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624	Bromomethane	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624	Chloroethane	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624	Acrolein	0	ug/L	100.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		Acrylonitrile	0	ug/L	100.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		Methylene Chloride	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		Chloroform	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		Benzene	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		Trichloroethene	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		Bromodichloromethane	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		Dibromochloromethane	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		Bromoform	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		Tetrachloroethene	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		Toluene	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		Toluene-d8	99	ug/L	81
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		Chlorobenzene	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		Ethylbenzene	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		2-Propanone	0	ug/L	60

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		2-Butanone	0	ug/L	60
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		Dibromofluoromethane (S)	106	ug/L	83
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$624		4-Bromofluorobenzene (S)	99	ug/L	72
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		pyridine	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		2-Fluorophenol	22.1	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		aniline	0	ug/L	6.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Phenol-d6	16.9	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Phenol	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		2-Chlorophenol	0	ug/L	6.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		n-decane	0	ug/L	6.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		o-cresol	0	ug/L	6.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		acetophenone	0	ug/L	6.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Hexachloroethane	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Nitrobenzene-d5	53.6	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		p-cresol	0	ug/L	6.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Nitrobenzene	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Isophorone	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Decafluorobiphenyl	56.2	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		2-Nitrophenol	0	ug/L	6.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Naphthalene	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		1-Fluoronaphthalene	58.1	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		alpha terpineol	0	ug/L	6.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Hexachlorobutadiene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Acenaphthylene	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Acenaphthene	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		4-Nitrophenol	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Diethyl phthalate	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Fluorene	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		2,4,6-Tribromophenol	37.6	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Pentachlorophenol	0	ug/L	6.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		n-octadecane	0	ug/L	6.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Phenanthrene	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Anthracene	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		carbazole	0	ug/L	6.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Fluoranthene	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Benzidine	0	ug/L	6.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625		Pyrene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	Chrysene	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	Perylene-D12	50.0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	Hexachloroethane	0	ug/L	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	2,3-Dichloroaniline	0	ug/L	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	Diethylphthalate	0	ug/L	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	Benzo[ghi]perylene	0	ug/L	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	2-Hexene, 2,5,5-trimethyl- T	5	ug/L	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	2-Hexene, 3,5,5-trimethyl- T	18	ug/L	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	2-Hexene, 3,5,5-trimethyl- T2	6	ug/L	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	1-Silacyclo-3-pentene T	4	ug/L	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	33	ug/L	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	2-Butenal, 3-methyl- T	6	ug/L	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	1-Butanol, 3-methyl-, carbonate (2:1) T	4	ug/L	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	Pentane, 2,3,4-trimethyl- T	21	ug/L	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	1-Octene, 3-ethyl- T	2	ug/L	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	Pentane, 2,3,4-trimethyl- T2	5	ug/L	
AC08756	LM34	Little Miami Watershed	34	10/18/2012	10:00	\$625	TOTAL AMOUNT	648	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	MF_CF	Fecal Coliform, Membrane Filter	79	CFU/100mL	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	E-COLI	E.coli (Colilert)	93	MPN	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	TDS	Total Dissolved Solids	340	mg/L	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	SO4	Sulfate	48.2	mg/L	12.5
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	CL	Chloride	50.8	mg/L	1.00
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	TSS	Tot. Suspended Solids	10	mg/L	2
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	SSC	Suspended Sediment Concentration	17.8	mg/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	HARD	Hardness as CaCO3	220	mg/l	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	COD	COD	18	mg/L	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	462	uS/cm	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	TEMP_FLD	Temperature (Field) Celsius	15.65	Deg C	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	PH_FLD	pH (Field)	7.60	S.U.	1.00
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	DO_FLD	Dissolved Oxygen (field) mg/L	8.25	mg/l	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	CONDUCTIVITY	Specific Conductivity (uS/cm)	563	uS/cm	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$ICP	Aluminum	0.000	mg/L	0.348
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$ICP	Antimony	0.000	mg/L	0.006
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$ICP	Arsenic	0.000	mg/L	0.012
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$ICP	Barium	0.036	mg/L	0.003
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$ICP	Beryllium	0.000	mg/L	0.009
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$ICP	Cadmium	0.000	mg/L	0.012
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$ICP	Calcium	66.619	mg/L	0.066
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$ICP	Chromium	0.000	mg/L	0.006
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$ICP	Cobalt	0.000	mg/L	0.006
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$ICP	Copper	0.008	mg/L	0.006
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$ICP	Iron	0.529	mg/L	0.018
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$ICP	Lead	0.000	mg/L	0.006
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$ICP	Magnesium	14.404	mg/L	0.021
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$ICP	Manganese	0.109	mg/L	0.009
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$ICP	Nickel	0.000	mg/L	0.003
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$ICP	Selenium	0.026	mg/L	0.009
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$ICP	Silver	0.000	mg/L	0.003
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$ICP	Strontium	0.230	mg/L	0.009



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$ICP	Thallium	0.013	mg/L	0.012
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$ICP	Tin	0.000	mg/L	0.006
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$ICP	Vanadium	0.000	mg/L	0.018
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$ICP	Zinc	0.015	mg/L	0.006
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	PB_FU	Lead by Furnace	0.42	ug/L	0.5
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	AS_FU	Arsenic by Furnace	1.48	ug/L	1.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	CU_FU	Copper by Furnace	4.2	ug/L	1
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	NH3	Ammonia as N	0	mg/L	0.5
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	NO3NO2	Nitrate + Nitrite	5.19	mg/L	0.5
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	TKP	Total Kjeldahl Phosphorus	0.9291	mg/L	0.5
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	NO2	Nitrite as N	0.0163	mg/l	0.005
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	NO3	Nitrate as N (calculated)	5.1737	mg/l	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	CHLOROPHYLL	Chlorophyll	3.74	mg/m3	1.00
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	Aldrin	AA	ug/L	.02
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	Beta-BHC	AA	ug/L	.02
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	Delta-BHC	AA	ug/L	.02
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	Chlordane	AA	ug/L	.01
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	4,4-DDD	AA	ug/L	.02
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	4,4-DDT	AA	ug/L	.03
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	4,4-DDE	AA	ug/L	.02
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	Dieldrin	AA	ug/L	.02
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	Endosulfan I	AA	ug/L	.05
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	Endosulfan II	AA	ug/L	.02
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	Endrin	AA	ug/L	.02
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	Heptachlor	AA	ug/L	.02
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	Toxaphene	AA	ug/L	1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	PCB 1016	AA	ug/L	0.5
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	PCB 1221	AA	ug/L	0.5
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	PCB 1232	AA	ug/L	0.5
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	PCB 1242	AA	ug/L	0.5
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	PCB 1248	AA	ug/L	0.5
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	PCB 1254	AA	ug/L	0.5
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	PCB 1260	AA	ug/L	0.5
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	Surr: Decachlorobiphenyl	80	%	0.801
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$PEST	Surr: Tetrachloro-m-xylene	89	%	0.894
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	Bromochloromethane	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	Chloromethane	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	Vinyl Chloride	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	Bromomethane	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	Chloroethane	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	Acrolein	0	ug/L	100.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	Acrylonitrile	0	ug/L	100.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	Methylene Chloride	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	Chloroform	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	Benzene	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	Trichloroethene	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	Bromodichloromethane	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624		Dibromochloromethane	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624		Bromoform	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624		Tetrachloroethene	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624		Toluene	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624		Toluene-d8	100	ug/L	81
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624		Chlorobenzene	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624		Ethylbenzene	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624		2-Propanone	0	ug/L	60
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624		2-Butanone	0	ug/L	60
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624		Dibromofluoromethane (S)	108	ug/L	83
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$624		4-Bromofluorobenzene (S)	99	ug/L	72
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		pyridine	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		2-Fluorophenol	24.0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		aniline	0	ug/L	6.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Phenol-d6	18.1	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Phenol	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		2-Chlorophenol	0	ug/L	6.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		n-decane	0	ug/L	6.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		o-cresol	0	ug/L	6.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		acetophenone	0	ug/L	6.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Hexachloroethane	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Nitrobenzene-d5	57.9	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		p-cresol	0	ug/L	6.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Nitrobenzene	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Isophorone	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Decafluorobiphenyl	53.8	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		2-Nitrophenol	0	ug/L	6.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Naphthalene	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		1-Fluoronaphthalene	58.7	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		alpha terpineol	0	ug/L	6.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Acenaphthylene	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Acenaphthene	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		4-Nitrophenol	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Diethyl phthalate	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Fluorene	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Phenanthrene-D10	50.0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		2,4,6-Tribromophenol	43.0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Pentachlorophenol	0	ug/L	6.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		n-octadecane	0	ug/L	6.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Phenanthrene	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Anthracene	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		carbazole	0	ug/L	6.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Fluoranthene	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Benzidine	0	ug/L	6.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Pyrene	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Chrysene	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Perylene-D12	50.0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Hexachloroethane	0	ug/L	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		2,3-Dichloroaniline	0	ug/L	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Diethylphthalate	0	ug/L	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Benzo[ghi]perylene	0	ug/L	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Azetidine, 1,1'-methylenebis- T	5	ug/L	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		2-Hexene, 2,5,5-trimethyl- T	19	ug/L	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		2-Hexene, 3,5,5-trimethyl- T	6	ug/L	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		1-Silacyclo-3-pentene T	5	ug/L	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	28	ug/L	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		2-Butenal, 3-methyl- T	6	ug/L	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		2,4,4-Trimethyl-1-hexene T	3	ug/L	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Pentane, 2,3,4-trimethyl- T	22	ug/L	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Octane, 3-methyl-6-methylene- T	2	ug/L	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		Pentane, 2,3,4-trimethyl- T2	5	ug/L	
AC08757	LM35	Little Miami Watershed	35	10/18/2012	10:15	\$625		TOTAL AMOUNT	656	ug/L	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35		MF_CF	Fecal Coliform, Membrane Filter	50	CFU/100mL	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35		E-COLI	E.coli (Colilert)	64	MPN	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35		TDS	Total Dissolved Solids	320	mg/L	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35		BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35		SO4	Sulfate	42.0	mg/L	12.5
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35		CL	Chloride	47.0	mg/L	1.00
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35		TSS	Tot. Suspended Solids	30	mg/L	2
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35		SSC	Suspended Sediment Concentration	17.1	mg/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35		HARD	Hardness as CaCO3	218	mg/l	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35		COD	COD	18	mg/L	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35		CONDUCTIVITY-R	Relative Conductivity (uS/cm)	436	uS/cm	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35		TEMP_FLD	Temperature (Field) Celsius	15.25	Deg C	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35		PH_FLD	pH (Field)	7.41	S.U.	1.00
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35		DO_FLD	Dissolved Oxygen (field) mg/L	8.06	mg/l	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35		CONDUCTIVITY	Specific Conductivity (uS/cm)	536	uS/cm	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35		\$ICP	Aluminum	0.444	mg/L	0.348
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35		\$ICP	Antimony	0.000	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$ICP	Arsenic	0.000	mg/L	0.012
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$ICP	Barium	0.036	mg/L	0.003
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$ICP	Beryllium	0.000	mg/L	0.009
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$ICP	Cadmium	0.000	mg/L	0.012
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$ICP	Calcium	65.405	mg/L	0.066
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$ICP	Chromium	0.000	mg/L	0.006
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$ICP	Cobalt	0.000	mg/L	0.006
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$ICP	Copper	0.006	mg/L	0.006
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$ICP	Iron	0.811	mg/L	0.018
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$ICP	Lead	0.000	mg/L	0.006
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$ICP	Magnesium	14.281	mg/L	0.021
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$ICP	Manganese	0.146	mg/L	0.009
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$ICP	Nickel	0.000	mg/L	0.003
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$ICP	Selenium	0.023	mg/L	0.009
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$ICP	Silver	0.000	mg/L	0.003
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$ICP	Strontium	0.206	mg/L	0.009
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$ICP	Thallium	0.012	mg/L	0.012
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$ICP	Tin	0.000	mg/L	0.006
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$ICP	Vanadium	0.000	mg/L	0.018
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$ICP	Zinc	0.012	mg/L	0.006
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	PB_FU	Lead by Furnace	0.89	ug/L	0.5
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	AS_FU	Arsenic by Furnace	1.54	ug/L	1.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	CU_FU	Copper by Furnace	3.8	ug/L	1
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	NH3	Ammonia as N	0	mg/L	0.5
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	NO3NO2	Nitrate + Nitrite	3.40	mg/L	0.5
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	TKP	Total Kjeldahl Phosphorus	0.7788	mg/L	0.5
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	NO2	Nitrite as N	0.0171	mg/l	0.005
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	NO3	Nitrate as N (calculated)	3.3829	mg/l	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	Aldrin	AA	ug/L	.02
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	Alpha-BHC	AA	ug/L	.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	Beta-BHC	AA	ug/L	.02
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	Delta-BHC	AA	ug/L	.02
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	Chlordane	AA	ug/L	.01
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	4,4-DDD	AA	ug/L	.02
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	4,4-DDT	AA	ug/L	.03
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	4,4-DDE	AA	ug/L	.02
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	Dieldrin	AA	ug/L	.02
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	Endosulfan I	AA	ug/L	.05
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	Endosulfan II	AA	ug/L	.02
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	Endrin	AA	ug/L	.02
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	Heptachlor	AA	ug/L	.02
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	Toxaphene	AA	ug/L	1
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	PCB 1016	AA	ug/L	0.5
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	PCB 1221	AA	ug/L	0.5
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	PCB 1232	AA	ug/L	0.5
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	PCB 1242	AA	ug/L	0.5
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	PCB 1248	AA	ug/L	0.5
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	PCB 1254	AA	ug/L	0.5
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	PCB 1260	AA	ug/L	0.5
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	Surr: Decachlorobiphenyl	85	%	0.848
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$PEST	Surr: Tetrachloro-m-xylene	95	%	0.952
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624	Bromochloromethane	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624	Chloromethane	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624	Vinyl Chloride	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624	Bromomethane	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624	Chloroethane	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624	Acrolein	0	ug/L	100.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624	1,1-Dichloroethene	0	ug/L	5.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		Acrylonitrile	0	ug/L	100.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		Methylene Chloride	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		Chloroform	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		1,2-Dichloroethane-d4	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		Benzene	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		Trichloroethene	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		Bromodichloromethane	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		Dibromochloromethane	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		Bromoform	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		1,4-Dichlorobutane	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		Tetrachloroethene	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		Toluene	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		Toluene-d8	99	ug/L	81
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		Chlorobenzene	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		Ethylbenzene	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		2-Propanone	0	ug/L	60
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624		2-Butanone	0	ug/L	60

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624	Dibromofluoromethane (S)	106	ug/L	83
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$624	4-Bromofluorobenzene (S)	100	ug/L	72
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	pyridine	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	2-Fluorophenol	33.2	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	aniline	0	ug/L	6.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Phenol-d6	23.1	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Phenol	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	2-Chlorophenol	0	ug/L	6.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	n-decane	0	ug/L	6.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	o-cresol	0	ug/L	6.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	acetophenone	0	ug/L	6.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Hexachloroethane	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Nitrobenzene-d5	67.9	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	p-cresol	0	ug/L	6.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Nitrobenzene	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Isophorone	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Decafluorobiphenyl	66.1	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	2-Nitrophenol	0	ug/L	6.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Naphthalene	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	1-Fluoronaphthalene	72.0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	alpha terpineol	0	ug/L	6.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		Acenaphthylene	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		Acenaphthene	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		4-Nitrophenol	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		Diethyl phthalate	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		Fluorene	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		2,4,6-Tribromophenol	57.1	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		Hexachlorobenzene	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		Pentachlorophenol	0	ug/L	6.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		n-octadecane	0	ug/L	6.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		Phenanthrene	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		Anthracene	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		carbazole	0	ug/L	6.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		Fluoranthene	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		Benzidine	0	ug/L	6.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		Pyrene	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625		Butyl benzyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Chrysene	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Perylene-D12	50.0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Hexachloroethane	0	ug/L	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	2,3-Dichloroaniline	0	ug/L	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Diethylphthalate	0	ug/L	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Benzo[ghi]perylene	0	ug/L	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Cyclobutane, 2-hexyl-1,1,4-trimethyl- T	5	ug/L	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	2-Hexene, 3,5,5-trimethyl- T	19	ug/L	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	2-Hexene, 3,5,5-trimethyl- T2	6	ug/L	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	2-Heptene, 2,3-dimethyl- T	5	ug/L	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	16	ug/L	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	2-Butenal, 3-methyl- T	6	ug/L	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Ethane, 1,1,2,2-tetrachloro- T	3	ug/L	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Hexane, 3,3,4-trimethyl- T	3	ug/L	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	1-Butanol, 3-methyl-, carbonate (2:1) T	21	ug/L	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	Pentane, 2,3,4-trimethyl- T	6	ug/L	
AC08758	LM36	Little Miami Watershed	36	10/18/2012	10:35	\$625	TOTAL AMOUNT	710	ug/L	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	MF_CF	Fecal Coliform, Membrane Filter	1	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	E-COLI	E.coli (Colilert)	16	MPN	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	TDS	Total Dissolved Solids	200	mg/L	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	SO4	Sulfate	42.8	mg/L	12.5
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	CL	Chloride	31.3	mg/L	1.00
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	TSS	Tot. Suspended Solids	3	mg/L	2
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	HARD	Hardness as CaCO3	212	mg/l	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	COD	COD	29	mg/L	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	355	uS/cm	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	TEMP_FLD	Temperature (Field) Celsius	11.64	Deg C	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	PH_FLD	pH (Field)	7.28	S.U.	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	DO_FLD	Dissolved Oxygen (field) mg/L	4.26	mg/l	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	477	uS/cm	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$ICP	Aluminum	0.000	mg/L	0.348
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$ICP	Antimony	0.000	mg/L	0.006
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$ICP	Arsenic	0.000	mg/L	0.012
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$ICP	Barium	0.056	mg/L	0.003
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$ICP	Beryllium	0.000	mg/L	0.009
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$ICP	Cadmium	0.000	mg/L	0.012
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$ICP	Calcium	63.762	mg/L	0.066
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$ICP	Chromium	0.000	mg/L	0.006
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$ICP	Cobalt	0.000	mg/L	0.006
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$ICP	Copper	0.000	mg/L	0.006
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$ICP	Iron	0.197	mg/L	0.018
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$ICP	Lead	0.000	mg/L	0.006
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$ICP	Magnesium	15.599	mg/L	0.021
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$ICP	Manganese	0.213	mg/L	0.009
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$ICP	Nickel	0.000	mg/L	0.003
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$ICP	Selenium	0.012	mg/L	0.009
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$ICP	Silver	0.000	mg/L	0.003
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$ICP	Strontium	0.163	mg/L	0.009
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$ICP	Thallium	0.014	mg/L	0.012

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$ICP	Tin	0.000	mg/L	0.006
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$ICP	Vanadium	0.000	mg/L	0.018
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$ICP	Zinc	0.000	mg/L	0.006
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	PB_FU	Lead by Furnace	0.19	ug/L	0.5
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	AS_FU	Arsenic by Furnace	2.57	ug/L	1.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	CU_FU	Copper by Furnace	2.1	ug/L	1
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	NH3	Ammonia as N	0	mg/L	0.5
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	TKN	Total Kjeldahl Nitrogen	0.6845	mg/L	0.5
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	NO2	Nitrite as N	0.0010	mg/l	0.005
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	Aldrin	AA	ug/L	.02
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	Beta-BHC	AA	ug/L	.02
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	Delta-BHC	AA	ug/L	.02
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	Chlordane	AA	ug/L	.01
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	4,4-DDD	AA	ug/L	.02
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	4,4-DDT	AA	ug/L	.03
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	4,4-DDE	AA	ug/L	.02
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	Dieldrin	AA	ug/L	.02
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	Endosulfan I	AA	ug/L	.05
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	Endosulfan II	AA	ug/L	.02
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	Endrin	AA	ug/L	.02
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	Heptachlor	AA	ug/L	.02
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	Toxaphene	AA	ug/L	1
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	PCB 1016	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	PCB 1221	AA	ug/L	0.5
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	PCB 1232	AA	ug/L	0.5
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	PCB 1242	AA	ug/L	0.5
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	PCB 1248	AA	ug/L	0.5
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	PCB 1254	AA	ug/L	0.5
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	PCB 1260	AA	ug/L	0.5
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	Surr: Decachlorobiphenyl	84	%	00.838
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$PEST	Surr: Tetrachloro-m-xylene	87	%	0.872
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	Bromochloromethane	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	Chloromethane	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	Vinyl Chloride	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	Bromomethane	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	Chloroethane	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	Acrolein	0	ug/L	100.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	Acrylonitrile	0	ug/L	100.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	Methylene Chloride	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	Chloroform	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	Benzene	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	Trichloroethene	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	Bromodichloromethane	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	Dibromochloromethane	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	Bromoform	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	Tetrachloroethene	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	Toluene	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	Toluene-d8	99	ug/L	81
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	Chlorobenzene	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	Ethylbenzene	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	2-Propanone	0	ug/L	60
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$624	2-Butanone	0	ug/L	60
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	pyridine	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	2-Fluorophenol	22.5	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	aniline	0	ug/L	6.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Phenol-d6	18.4	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Phenol	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	2-Chlorophenol	0	ug/L	6.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	n-decane	0	ug/L	6.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	o-cresol	0	ug/L	6.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	acetophenone	0	ug/L	6.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Hexachloroethane	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Nitrobenzene-d5	61.4	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	p-cresol	0	ug/L	6.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Nitrobenzene	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Isophorone	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Decafluorobiphenyl	61.4	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	2-Nitrophenol	0	ug/L	6.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Naphthalene	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	1-Fluoronaphthalene	66.6	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	alpha terpineol	0	ug/L	6.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Acenaphthylene	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Acenaphthene	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	4-Nitrophenol	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Diethyl phthalate	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Fluorene	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	2,4,6-Tribromophenol	37.8	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Pentachlorophenol	0	ug/L	6.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	n-octadecane	0	ug/L	6.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Phenanthrene	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Anthracene	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	carbazole	0	ug/L	6.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Fluoranthene	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Benzidine	0	ug/L	6.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Pyrene	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Chrysene	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Perylene-D12	50.0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Hexachloroethane	0	ug/L	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	2,3-Dichloroaniline	0	ug/L	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Diethylphthalate	0	ug/L	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Benzo[ghi]perylene	0	ug/L	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	6,6-Dimethyl-cyclohex-2-en-1-ol T	5	ug/L	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	2-Hexene, 3,5,5-trimethyl- T	20	ug/L	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	2-Hexene, 3,5,5-trimethyl- T2	6	ug/L	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	2-Hexene, 4,4,5-trimethyl- T	5	ug/L	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Hydrazine, 1,1-bis(1-methylethyl)- T	9	ug/L	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	2-Butenal, 3-methyl- T	6	ug/L	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Heptane, 3,3,5-trimethyl- T	3	ug/L	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Decane, 3,3,4-trimethyl- T	23	ug/L	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Hexane, 2,3-dimethyl- T	3	ug/L	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	Pentane, 2,3,4-trimethyl- T	6	ug/L	
AC08815	LM37	Little Miami Watershed	37	10/19/2012	08:10	\$625	TOTAL AMOUNT	654	ug/L	
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	MF_CF	Fecal Coliform, Membrane Filter	200	CFU/100mL	
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	E-COLI	E.coli (Colilert)	105	MPN	
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	TDS	Total Dissolved Solids	410	mg/L	
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	SO4	Sulfate	82.0	mg/L	25.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	CL	Chloride	82.2	mg/L	1.00
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	TSS	Tot. Suspended Solids	4	mg/L	2
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	HARD	Hardness as CaCO3	230	mg/l	
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	COD	COD	22	mg/L	
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	581	uS/cm	
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	TEMP_FLD	Temperature (Field) Celsius	12.09	Deg C	
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	PH_FLD	pH (Field)	7.82	S.U.	
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	DO_FLD	Dissolved Oxygen (field) mg/L	7.46	mg/l	
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	CONDUCTIVITY	Specific Conductivity (uS/cm)	770	uS/cm	
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$ICP	Aluminum	0.000	mg/L	0.348
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$ICP	Antimony	0.000	mg/L	0.006
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$ICP	Arsenic	0.000	mg/L	0.012
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$ICP	Barium	0.035	mg/L	0.003
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$ICP	Beryllium	0.000	mg/L	0.009

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$ICP	Cadmium	0.000	mg/L	0.012
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$ICP	Calcium	77.668	mg/L	0.066
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$ICP	Chromium	0.000	mg/L	0.006
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$ICP	Cobalt	0.000	mg/L	0.006
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$ICP	Copper	0.010	mg/L	0.006
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$ICP	Iron	0.154	mg/L	0.018
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$ICP	Lead	0.000	mg/L	0.006
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$ICP	Magnesium	18.026	mg/L	0.021
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$ICP	Manganese	0.019	mg/L	0.009
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$ICP	Nickel	0.000	mg/L	0.003
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$ICP	Selenium	0.024	mg/L	0.009
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$ICP	Silver	0.000	mg/L	0.003
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$ICP	Strontium	0.291	mg/L	0.009
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$ICP	Thallium	0.030	mg/L	0.012
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$ICP	Tin	0.000	mg/L	0.006
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$ICP	Vanadium	0.000	mg/L	0.018
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$ICP	Zinc	0.029	mg/L	0.006
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	PB_FU	Lead by Furnace	0.49	ug/L	0.5
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	AS_FU	Arsenic by Furnace	1.26	ug/L	1.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	CU_FU	Copper by Furnace	8.1	ug/L	1
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	NH3	Ammonia as N	0	mg/L	0.5
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	NO3NO2	Nitrate + Nitrite	10.0	mg/L	0.5
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	TKP	Total Kjeldahl Phosphorus	1.600	mg/L	0.5
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	NO2	Nitrite as N	0.0386	mg/l	0.005
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	NO3	Nitrate as N (calculated)	9.9614	mg/l	
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	Aldrin	AA	ug/L	.02
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	Beta-BHC	AA	ug/L	.02
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	Delta-BHC	AA	ug/L	.02
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	Gamma-BHC	AA	ug/L	.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	Chlordane	AA	ug/L	.01
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	4,4-DDD	AA	ug/L	.02
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	4,4-DDT	AA	ug/L	.03
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	4,4-DDE	AA	ug/L	.02
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	Dieldrin	AA	ug/L	.02
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	Endosulfan I	AA	ug/L	.05
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	Endosulfan II	AA	ug/L	.02
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	Endrin	AA	ug/L	.02
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	Heptachlor	AA	ug/L	.02
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	Toxaphene	AA	ug/L	1
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	PCB 1016	AA	ug/L	0.5
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	PCB 1221	AA	ug/L	0.5
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	PCB 1232	AA	ug/L	0.5
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	PCB 1242	AA	ug/L	0.5
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	PCB 1248	AA	ug/L	0.5
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	PCB 1254	AA	ug/L	0.5
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	PCB 1260	AA	ug/L	0.5
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	Surr: Decachlorobiphenyl	94	%	0.937
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$PEST	Surr: Tetrachloro-m-xylene	103	%	1.03
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Bromochloromethane	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Chloromethane	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Vinyl Chloride	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Bromomethane	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Chloroethane	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Acrolein	0	ug/L	100.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Acrylonitrile	0	ug/L	100.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Methylene Chloride	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Chloroform	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Benzene	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Trichloroethene	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Bromodichloromethane	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Dibromochloromethane	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Bromoform	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Tetrachloroethene	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Toluene	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Toluene-d8	101	ug/L	81
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Chlorobenzene	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Ethylbenzene	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	2-Propanone	0	ug/L	60
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	2-Butanone	0	ug/L	60
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	Dibromofluoromethane (S)	97	ug/L	83
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$624	4-Bromofluorobenzene (S)	99	ug/L	72
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	pyridine	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	2-Fluorophenol	33.4	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	aniline	0	ug/L	6.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Phenol-d6	22.7	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Phenol	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	2-Chlorophenol	0	ug/L	6.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	n-decane	0	ug/L	6.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	o-cresol	0	ug/L	6.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	acetophenone	0	ug/L	6.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Hexachloroethane	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Nitrobenzene-d5	58.8	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	p-cresol	0	ug/L	6.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Nitrobenzene	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Isophorone	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Decafluorobiphenyl	52.2	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	2-Nitrophenol	0	ug/L	6.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Naphthalene	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	1-Fluoronaphthalene	56.4	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	alpha terpineol	0	ug/L	6.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	2,3 dichloroaniline	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Acenaphthylene	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Acenaphthene	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	4-Nitrophenol	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Diethyl phthalate	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Fluorene	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	2,4,6-Tribromophenol	56.9	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Pentachlorophenol	0	ug/L	6.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	n-octadecane	0	ug/L	6.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Phenanthrene	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Anthracene	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	carbazole	0	ug/L	6.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Fluoranthene	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Benzidine	0	ug/L	6.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Pyrene	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012	08:40	\$625	Chrysene	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		Di-n-octyl phtalate	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		Perylene-D12	50.0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		Hexachlrooethane	0	ug/L	
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		2,3-Dichloroaniline	0	ug/L	
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		Diethylphtalate	0	ug/L	
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		Benzo[ghi]perylene	0	ug/L	
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		2-Hexene, 2,5,5-trimethyl- T	4	ug/L	
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		2-Hexene, 2,5,5-trimethyl- T2	18	ug/L	
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		2-Hexene, 3,5,5-trimethyl- T	6	ug/L	
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		1-(1-Methyl-cyclopentyl)-ethanone T	4	ug/L	
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		2-Pentanone, 4-hydroxy-4-methyl- T	47	ug/L	
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		2-Butenal, 3-methyl- T	6	ug/L	
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		Butane, 2-bromo-2-methyl- T	3	ug/L	
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		Pentane, 2,3,4-trimethyl- T	22	ug/L	
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		Octane, 3-methyl-6-methylene- T	3	ug/L	
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		Hexane, 3,3,4-trimethyl- T	5	ug/L	
AC08816	LM38	Little Miami Watershed	38	10/19/2012 08:40	\$625		TOTAL AMOUNT	698	ug/L	
AC08817	LM49	Little Miami Watershed	49	10/19/2012 09:10		MF_CF	Fecal Coliform, Membrane Filter	79	CFU/100mL	
AC08817	LM49	Little Miami Watershed	49	10/19/2012 09:10		E-COLI	E.coli (Colilert)	93	MPN	
AC08817	LM49	Little Miami Watershed	49	10/19/2012 09:10		TDS	Total Dissolved Solids	440	mg/L	
AC08817	LM49	Little Miami Watershed	49	10/19/2012 09:10		BOD	Biochemical Oxygen Demand	2	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	SO4	Sulfate	49.5	mg/L	12.5
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	CL	Chloride	121	mg/L	2.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	TSS	Tot. Suspended Solids	8	mg/L	2
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	HARD	Hardness as CaCO3	274	mg/l	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	COD	COD	10	mg/L	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	626	uS/cm	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	TEMP_FLD	Temperature (Field) Celsius	10.84	Deg C	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	PH_FLD	pH (Field)	8.19	S.U.	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	DO_FLD	Dissolved Oxygen (field) mg/L	10.76	mg/l	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	CONDUCTIVITY	Specific Conductivity (uS/cm)	859	uS/cm	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$ICP	Aluminum	0.000	mg/L	0.348
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$ICP	Antimony	0.000	mg/L	0.006
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$ICP	Arsenic	0.000	mg/L	0.012
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$ICP	Barium	0.034	mg/L	0.003
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$ICP	Beryllium	0.000	mg/L	0.009
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$ICP	Cadmium	0.000	mg/L	0.012
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$ICP	Calcium	101.230	mg/L	0.066
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$ICP	Chromium	0.000	mg/L	0.006
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$ICP	Cobalt	0.000	mg/L	0.006
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$ICP	Copper	0.000	mg/L	0.006
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$ICP	Iron	0.043	mg/L	0.018
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$ICP	Lead	0.000	mg/L	0.006
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$ICP	Magnesium	18.367	mg/L	0.021
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$ICP	Manganese	0.012	mg/L	0.009
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$ICP	Nickel	0.000	mg/L	0.003
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$ICP	Selenium	0.020	mg/L	0.009
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$ICP	Silver	0.000	mg/L	0.003
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$ICP	Strontium	0.374	mg/L	0.009
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$ICP	Thallium	0.018	mg/L	0.012
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$ICP	Tin	0.000	mg/L	0.006
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$ICP	Vanadium	0.000	mg/L	0.018
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$ICP	Zinc	0.000	mg/L	0.006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	PB_FU	Lead by Furnace	0.08	ug/L	0.5
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	AS_FU	Arsenic by Furnace	1.35	ug/L	1.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	CU_FU	Copper by Furnace	3.6	ug/L	1
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	NH3	Ammonia as N	0	mg/L	0.5
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	NO2	Nitrite as N	0.0020	mg/l	0.005
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	Aldrin	AA	ug/L	.02
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	Beta-BHC	AA	ug/L	.02
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	Delta-BHC	AA	ug/L	.02
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	Chlordane	AA	ug/L	.01
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	4,4-DDD	AA	ug/L	.02
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	4,4-DDT	AA	ug/L	.03
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	4,4-DDE	AA	ug/L	.02
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	Dieldrin	AA	ug/L	.02
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	Endosulfan I	AA	ug/L	.05
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	Endosulfan II	AA	ug/L	.02
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	Endrin	AA	ug/L	.02
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	Heptachlor	AA	ug/L	.02
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	Toxaphene	AA	ug/L	1
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	PCB 1016	AA	ug/L	0.5
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	PCB 1221	AA	ug/L	0.5
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	PCB 1232	AA	ug/L	0.5
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	PCB 1242	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	PCB 1248	AA	ug/L	0.5
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	PCB 1254	AA	ug/L	0.5
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	PCB 1260	AA	ug/L	0.5
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	Surr: Decachlorobiphenyl	79	%	0.792
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$PEST	Surr: Tetrachloro-m-xylene	91	%	0.913
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Bromochloromethane	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Chloromethane	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Vinyl Chloride	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Bromomethane	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Chloroethane	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Acrolein	0	ug/L	100.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Acrylonitrile	0	ug/L	100.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Methylene Chloride	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Chloroform	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Benzene	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Trichloroethene	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Bromodichloromethane	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Dibromochloromethane	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Bromoform	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Tetrachloroethene	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Toluene	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Toluene-d8	101	ug/L	81
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Chlorobenzene	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Ethylbenzene	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	2-Propanone	0	ug/L	60
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	2-Butanone	0	ug/L	60
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	Dibromofluoromethane (S)	97	ug/L	83
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$624	4-Bromofluorobenzene (S)	99	ug/L	72
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	pyridine	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	2-Fluorophenol	19.1	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	aniline	0	ug/L	6.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Phenol-d6	15.7	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Phenol	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	2-Chlorophenol	0	ug/L	6.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	n-decane	0	ug/L	6.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	o-cresol	0	ug/L	6.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	acetophenone	0	ug/L	6.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Hexachloroethane	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Nitrobenzene-d5	47.1	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	p-cresol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Nitrobenzene	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Isophorone	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Decafluorobiphenyl	46.1	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	2-Nitrophenol	0	ug/L	6.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Naphthalene	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	1-Fluoronaphthalene	50.4	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	alpha terpineol	0	ug/L	6.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Acenaphthylene	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Acenaphthene	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	4-Nitrophenol	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Diethyl phthalate	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Fluorene	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	2,4,6-Tribromophenol	28.2	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Pentachlorophenol	0	ug/L	6.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	n-octadecane	0	ug/L	6.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Phenanthrene	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Anthracene	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	carbazole	0	ug/L	6.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Fluoranthene	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Benzidine	0	ug/L	6.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Pyrene	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Chrysene	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Perylene-D12	50.0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Hexachloroethane	0	ug/L	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	2,3-Dichloroaniline	0	ug/L	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Diethylphthalate	0	ug/L	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Dibenz[a,h]anthracene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Benzo[ghi]perylene	0	ug/L	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	6,6-Dimethyl-cyclohex-2-en-1-ol T	4	ug/L	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	2-Hexene, 2,5,5-trimethyl- T	17	ug/L	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	2-Hexene, 2,5,5-trimethyl- T2	5	ug/L	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	1-Pentene, 3-ethyl-2-methyl- T	4	ug/L	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	20	ug/L	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Hexane, 3-methyl-4-methylene- T	2	ug/L	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	2-Butenal, 3-methyl- T	6	ug/L	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Decane, 3,3,4-trimethyl- T	3	ug/L	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Decane, 3,3,4-trimethyl- T2	21	ug/L	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	Hexane, 3,3,4-trimethyl- T	5	ug/L	
AC08817	LM49	Little Miami Watershed	49	10/19/2012	09:10	\$625	TOTAL AMOUNT	594	ug/L	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	MF_CF	Fecal Coliform, Membrane Filter	136	CFU/100mL	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	E-COLI	E.coli (Colilert)	152	MPN	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	TDS	Total Dissolved Solids	360	mg/L	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	SO4	Sulfate	50.2	mg/L	12.5
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	CL	Chloride	96.6	mg/L	1.00
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	TSS	Tot. Suspended Solids	2	mg/L	2
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	HARD	Hardness as CaCO3	232	mg/l	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	COD	COD	9	mg/L	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	553	uS/cm	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	TEMP_FLD	Temperature (Field) Celsius	11.49	Deg C	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	PH_FLD	pH (Field)	7.84	S.U.	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	DO_FLD	Dissolved Oxygen (field) mg/L	9.40	mg/l	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	745	uS/cm	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$ICP	Aluminum	0.000	mg/L	0.348
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$ICP	Antimony	0.000	mg/L	0.006
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$ICP	Arsenic	0.000	mg/L	0.012
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$ICP	Barium	0.028	mg/L	0.003
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$ICP	Beryllium	0.000	mg/L	0.009
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$ICP	Cadmium	0.000	mg/L	0.012



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$ICP	Calcium	72.059	mg/L	0.066
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$ICP	Chromium	0.000	mg/L	0.006
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$ICP	Cobalt	0.000	mg/L	0.006
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$ICP	Copper	0.000	mg/L	0.006
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$ICP	Iron	0.035	mg/L	0.018
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$ICP	Lead	0.000	mg/L	0.006
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$ICP	Magnesium	13.922	mg/L	0.021
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$ICP	Manganese	0.000	mg/L	0.009
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$ICP	Nickel	0.000	mg/L	0.003
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$ICP	Selenium	0.010	mg/L	0.009
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$ICP	Silver	0.000	mg/L	0.003
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$ICP	Strontium	0.305	mg/L	0.009
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$ICP	Thallium	0.018	mg/L	0.012
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$ICP	Tin	0.000	mg/L	0.006
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$ICP	Vanadium	0.000	mg/L	0.018
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$ICP	Zinc	0.000	mg/L	0.006
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	PB_FU	Lead by Furnace	0.06	ug/L	0.5
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	AS_FU	Arsenic by Furnace	0.88	ug/L	1.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	CU_FU	Copper by Furnace	3.3	ug/L	1
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	NH3	Ammonia as N	0	mg/L	0.5
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	NO2	Nitrite as N	0.0020	mg/l	0.005
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	Aldrin	AA	ug/L	.02
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	Beta-BHC	AA	ug/L	.02
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	Delta-BHC	AA	ug/L	.02
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	Chlordane	AA	ug/L	.01

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	4,4-DDD	AA	ug/L	.02
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	4,4-DDT	AA	ug/L	.03
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	4,4-DDE	AA	ug/L	.02
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	Dieldrin	AA	ug/L	.02
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	Endosulfan I	AA	ug/L	.05
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	Endosulfan II	AA	ug/L	.02
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	Endrin	AA	ug/L	.02
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	Heptachlor	AA	ug/L	.02
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	Toxaphene	AA	ug/L	1
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	PCB 1016	AA	ug/L	0.5
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	PCB 1221	AA	ug/L	0.5
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	PCB 1232	AA	ug/L	0.5
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	PCB 1242	AA	ug/L	0.5
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	PCB 1248	AA	ug/L	0.5
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	PCB 1254	AA	ug/L	0.5
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	PCB 1260	AA	ug/L	0.5
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	Surr: Decachlorobiphenyl	68	%	0.678
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$PEST	Surr: Tetrachloro-m-xylene	80	%	0.798
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Bromochloromethane	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Chloromethane	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Vinyl Chloride	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Bromomethane	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Chloroethane	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Acrolein	0	ug/L	100.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Acrylonitrile	0	ug/L	100.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Methylene Chloride	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	1,1-Dichloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Chloroform	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Benzene	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Trichloroethene	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Bromodichloromethane	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Dibromochloromethane	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Bromoform	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Tetrachloroethene	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Toluene	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Toluene-d8	100	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Chlorobenzene	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Ethylbenzene	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	2-Propanone	0	ug/L	60
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	2-Butanone	0	ug/L	60
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	Dibromofluoromethane (S)	105	ug/L	83
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$624	4-Bromofluorobenzene (S)	100	ug/L	72
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	pyridine	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	2-Fluorophenol	34.8	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	aniline	0	ug/L	6.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Phenol-d6	24.6	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Phenol	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	2-Chlorophenol	0	ug/L	6.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	n-decane	0	ug/L	6.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	o-cresol	0	ug/L	6.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	acetophenone	0	ug/L	6.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Hexachloroethane	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Nitrobenzene-d5	66.1	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	p-cresol	0	ug/L	6.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Nitrobenzene	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Isophorone	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Decafluorobiphenyl	69.2	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	2-Nitrophenol	0	ug/L	6.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Naphthalene	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	1-Fluoronaphthalene	68.4	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	alpha terpineol	0	ug/L	6.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Acenaphthylene	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Acenaphthene	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	4-Nitrophenol	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Diethyl phthalate	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Fluorene	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	2,4,6-Tribromophenol	61.5	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Pentachlorophenol	0	ug/L	6.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	n-octadecane	0	ug/L	6.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Phenanthrene	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Anthracene	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	carbazole	0	ug/L	6.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Fluoranthene	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Benzidine	0	ug/L	6.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Pyrene	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Chrysene	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Perylene-D12	50.0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Hexachloroethane	0	ug/L	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	2,3-Dichloroaniline	0	ug/L	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Diethylphthalate	0	ug/L	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Benzo[ghi]perylene	0	ug/L	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	2-Hexene, 2,5,5-trimethyl- T	5	ug/L	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	2-Hexene, 2,5,5-trimethyl- T2	20	ug/L	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	2-Hexene, 2,5,5-trimethyl- T3	6	ug/L	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Diazene, 1-cyclohexyl-2-ethoxy-, 1-oxi T	5	ug/L	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	15	ug/L	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	2-Butenal, 3-methyl- T	7	ug/L	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Pentane, 2,3,4-trimethyl- T	3	ug/L	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Pentane, 2,3,4-trimethyl- T2	23	ug/L	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Octane, 3-methyl-6-methylene- T	2	ug/L	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	Pentane, 2,3,4-trimethyl- T3	6	ug/L	
AC08818	LM50	Little Miami Watershed	50	10/19/2012	09:20	\$625	TOTAL AMOUNT	716	ug/L	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	MF_CF	Fecal Coliform, Membrane Filter	200	CFU/100mL	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	E-COLI	E.coli (Colilert)	96	MPN	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	TDS	Total Dissolved Solids	340	mg/L	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	SO4	Sulfate	45.0	mg/L	12.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	CL	Chloride	87.8	mg/L	1.00
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	TSS	Tot. Suspended Solids	2	mg/L	2
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	SSC	Suspended Sediment Concentration	31.1	mg/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	HARD	Hardness as CaCO3	194	mg/l	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	COD	COD	5	mg/L	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	544	uS/cm	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	TEMP_FLD	Temperature (Field) Celsius	12.69	Deg C	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	PH_FLD	pH (Field)	7.74	S.U.	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	DO_FLD	Dissolved Oxygen (field) mg/L	7.94	mg/l	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	712	uS/cm	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$ICP	Aluminum	0.000	mg/L	0.348
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$ICP	Antimony	0.000	mg/L	0.006
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$ICP	Arsenic	0.000	mg/L	0.012
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$ICP	Barium	0.030	mg/L	0.003
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$ICP	Beryllium	0.000	mg/L	0.009
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$ICP	Cadmium	0.000	mg/L	0.012
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$ICP	Calcium	67.113	mg/L	0.066
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$ICP	Chromium	0.000	mg/L	0.006
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$ICP	Cobalt	0.000	mg/L	0.006
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$ICP	Copper	0.000	mg/L	0.006
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$ICP	Iron	0.064	mg/L	0.018
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$ICP	Lead	0.000	mg/L	0.006
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$ICP	Magnesium	13.602	mg/L	0.021
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$ICP	Manganese	0.020	mg/L	0.009
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$ICP	Nickel	0.000	mg/L	0.003
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$ICP	Selenium	0.013	mg/L	0.009
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$ICP	Silver	0.000	mg/L	0.003
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$ICP	Strontium	0.252	mg/L	0.009
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$ICP	Thallium	0.015	mg/L	0.012
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$ICP	Tin	0.000	mg/L	0.006
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$ICP	Vanadium	0.000	mg/L	0.018
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$ICP	Zinc	0.027	mg/L	0.006
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	PB_FU	Lead by Furnace	0.07	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	AS_FU	Arsenic by Furnace	0.81	ug/L	1.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	CU_FU	Copper by Furnace	3.5	ug/L	1
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	NH3	Ammonia as N	0	mg/L	0.5
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	NO3NO2	Nitrate + Nitrite	1.01	mg/L	0.5
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	TKN	Total Kjeldahl Nitrogen	AE	mg/L	0.5
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	TKP	Total Kjeldahl Phosphorus	AE	mg/L	0.5
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	NO2	Nitrite as N	0.0021	mg/l	0.005
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	NO3	Nitrate as N (calculated)	1.0079	mg/l	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	CHLOROPHYLL	Chlorophyll	4.81	mg/m3	1.00
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	Aldrin	AA	ug/L	.02
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	Beta-BHC	AA	ug/L	.02
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	Delta-BHC	AA	ug/L	.02
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	Chlordane	AA	ug/L	.01
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	4,4-DDD	AA	ug/L	.02
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	4,4-DDT	AA	ug/L	.03
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	4,4-DDE	AA	ug/L	.02
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	Dieldrin	AA	ug/L	.02
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	Endosulfan I	AA	ug/L	.05
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	Endosulfan II	AA	ug/L	.02
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	Endrin	AA	ug/L	.02
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	Heptachlor	AA	ug/L	.02
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	Toxaphene	AA	ug/L	1
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	PCB 1016	AA	ug/L	0.5
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	PCB 1221	AA	ug/L	0.5
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	PCB 1232	AA	ug/L	0.5
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	PCB 1242	AA	ug/L	0.5
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	PCB 1248	AA	ug/L	0.5



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	PCB 1254	AA	ug/L	0.5
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	PCB 1260	AA	ug/L	0.5
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	Surr: Decachlorobiphenyl	61	%	0.614
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$PEST	Surr: Tetrachloro-m-xylene	82	%	0.817
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Bromochloromethane	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Chloromethane	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Vinyl Chloride	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Bromomethane	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Chloroethane	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Acrolein	0	ug/L	100.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Acrylonitrile	0	ug/L	100.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Methylene Chloride	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Chloroform	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Benzene	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Trichloroethene	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Bromodichloromethane	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Dibromochloromethane	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Bromoform	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	1,4-Dichlorobutane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Tetrachloroethene	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Toluene	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Toluene-d8	99	ug/L	81
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Chlorobenzene	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Ethylbenzene	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	2-Propanone	0	ug/L	60
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	2-Butanone	0	ug/L	60
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	Dibromofluoromethane (S)	105	ug/L	83
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$624	4-Bromofluorobenzene (S)	100	ug/L	72
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	pyridine	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	2-Fluorophenol	23.4	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	aniline	0	ug/L	6.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Phenol-d6	18.0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Phenol	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	2-Chlorophenol	0	ug/L	6.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	n-decane	0	ug/L	6.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	o-cresol	0	ug/L	6.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	acetophenone	0	ug/L	6.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Hexachloroethane	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Nitrobenzene-d5	57.0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	p-cresol	0	ug/L	6.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Nitrobenzene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Isophorone	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Decafluorobiphenyl	52.5	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	2-Nitrophenol	0	ug/L	6.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Naphthalene	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	1-Fluoronaphthalene	61.1	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	alpha terpineol	0	ug/L	6.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	2-Chloronaphthalene	0	ug/L	6.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Acenaphthylene	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Acenaphthene	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	4-Nitrophenol	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Diethyl phthalate	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Fluorene	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	2,4,6-Tribromophenol	51.2	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Pentachlorophenol	0	ug/L	6.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	n-octadecane	0	ug/L	6.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Phenanthrene	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Anthracene	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	carbazole	0	ug/L	6.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Fluoranthene	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Benzidine	0	ug/L	6.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Pyrene	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Chrysene	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Di-n-octyl phthalate	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Perylene-D12	50.0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Hexachloroethane	0	ug/L	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	2,3-Dichloroaniline	0	ug/L	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Diethylphthalate	0	ug/L	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Benzo[ghi]perylene	0	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	2-Hexene, 2,5,5-trimethyl- T	4	ug/L	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	2-Hexene, 3,5,5-trimethyl- T	17	ug/L	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	2-Hexene, 3,5,5-trimethyl- T2	5	ug/L	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	1-Silacyclo-3-pentene T	4	ug/L	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	60	ug/L	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	3-Octene, 2,2-dimethyl- T	2	ug/L	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Cyclopentane, 1,2,3,4,5-pentamethyl- T	6	ug/L	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Pentane, 2,3,4-trimethyl- T	3	ug/L	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Pentane, 2,3,4-trimethyl- T2	21	ug/L	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	Carbonic acid, dipentyl ester T	5	ug/L	
AC08819	LM51	Little Miami Watershed	51	10/19/2012	09:35	\$625	TOTAL AMOUNT	691	ug/L	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	MF_CF	Fecal Coliform, Membrane Filter	400	CFU/100mL	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	E-COLI	E.coli (Colilert)	727	MPN	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	TDS	Total Dissolved Solids	510	mg/L	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	SO4	Sulfate	93.5	mg/L	25.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	CL	Chloride	159	mg/L	4.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	TSS	Tot. Suspended Solids	4	mg/L	2
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	HARD	Hardness as CaCO3	238	mg/l	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	COD	COD	14	mg/L	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	966	uS/cm	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	TEMP_FLD	Temperature (Field) Celsius	19.97	Deg C	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	PH_FLD	pH (Field)	7.72	S.U.	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	DO_FLD	Dissolved Oxygen (field) mg/L	8.91	mg/l	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	1071	uS/cm	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$ICP	Aluminum	0.000	mg/L	0.348
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$ICP	Antimony	0.000	mg/L	0.006
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$ICP	Arsenic	0.000	mg/L	0.012
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$ICP	Barium	0.024	mg/L	0.003
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$ICP	Beryllium	0.000	mg/L	0.009
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$ICP	Cadmium	0.000	mg/L	0.012
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$ICP	Calcium	68.797	mg/L	0.066

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$ICP	Chromium	0.000	mg/L	0.006
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$ICP	Cobalt	0.000	mg/L	0.006
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$ICP	Copper	0.007	mg/L	0.006
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$ICP	Iron	0.031	mg/L	0.018
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$ICP	Lead	0.000	mg/L	0.006
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$ICP	Magnesium	18.677	mg/L	0.021
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$ICP	Manganese	0.010	mg/L	0.009
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$ICP	Nickel	0.000	mg/L	0.003
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$ICP	Selenium	0.017	mg/L	0.009
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$ICP	Silver	0.000	mg/L	0.003
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$ICP	Strontium	0.341	mg/L	0.009
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$ICP	Thallium	0.016	mg/L	0.012
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$ICP	Tin	0.000	mg/L	0.006
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$ICP	Vanadium	0.000	mg/L	0.018
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$ICP	Zinc	0.049	mg/L	0.006
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	PB_FU	Lead by Furnace	0.20	ug/L	0.5
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	AS_FU	Arsenic by Furnace	0.95	ug/L	1.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	CU_FU	Copper by Furnace	5.7	ug/L	1
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	NH3	Ammonia as N	0	mg/L	0.5
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	NO3NO2	Nitrate + Nitrite	4.13	mg/L	0.5
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	TKN	Total Kjeldahl Nitrogen	0.7024	mg/L	0.5
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	TKP	Total Kjeldahl Phosphorus	0.6938	mg/L	0.5
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	NO2	Nitrite as N	0.0581	mg/l	0.005
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	NO3	Nitrate as N (calculated)	4.0719	mg/l	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	Aldrin	AA	ug/L	.02
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	Beta-BHC	AA	ug/L	.02
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	Delta-BHC	AA	ug/L	.02
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	Chlordane	AA	ug/L	.01
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	4,4-DDD	AA	ug/L	.02

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	4,4-DDT	AA	ug/L	.03
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	4,4-DDE	AA	ug/L	.02
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	Dieldrin	AA	ug/L	.02
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	Endosulfan I	AA	ug/L	.05
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	Endosulfan II	AA	ug/L	.02
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	Endrin	AA	ug/L	.02
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	Heptachlor	AA	ug/L	.02
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	Toxaphene	AA	ug/L	1
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	PCB 1016	AA	ug/L	0.5
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	PCB 1221	AA	ug/L	0.5
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	PCB 1232	AA	ug/L	0.5
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	PCB 1242	AA	ug/L	0.5
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	PCB 1248	AA	ug/L	0.5
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	PCB 1254	AA	ug/L	0.5
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	PCB 1260	AA	ug/L	0.5
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	Surr: Decachlorobiphenyl	71	%	.0715
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$PEST	Surr: Tetrachloro-m-xylene	90	%	.0902
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Bromochloromethane	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Chloromethane	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Vinyl Chloride	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Bromomethane	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Chloroethane	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Acrolein	0	ug/L	100.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Acrylonitrile	0	ug/L	100.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Methylene Chloride	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Chloroform	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Benzene	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Trichloroethene	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Bromodichloromethane	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Dibromochloromethane	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Bromoform	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Tetrachloroethene	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Toluene	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Toluene-d8	98	ug/L	81
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Chlorobenzene	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Ethylbenzene	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Bromofluorobenzene	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	1,3-Dichlorobenzene	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	1,4-Dichlorobenzene	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	2-Propanone	0	ug/L	60
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	2-Butanone	0	ug/L	60
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	Dibromofluoromethane (S)	105	ug/L	83
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$624	4-Bromofluorobenzene (S)	101	ug/L	72
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	pyridine	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	n-nitrosodimethylamine	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	2-Fluorophenol	27.7	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	aniline	0	ug/L	6.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Phenol-d6	20.3	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Phenol	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	2-Chlorophenol	0	ug/L	6.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	n-decane	0	ug/L	6.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	o-cresol	0	ug/L	6.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	acetophenone	0	ug/L	6.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Hexachloroethane	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Nitrobenzene-d5	58.8	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	p-cresol	0	ug/L	6.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Nitrobenzene	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Isophorone	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Decafluorobiphenyl	59.0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	2-Nitrophenol	0	ug/L	6.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Naphthalene	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	1-Fluoronaphthalene	61.0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	alpha terpineol	0	ug/L	6.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Hexachlorobutadiene	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	4-Chloro-3-methylphenol	0	ug/L	6.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Acenaphthene-d10	50.0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Hexachlorocyclopentadiene	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	2,3 dichloroaniline	0	ug/L	6.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	2,4,6-Trichlorophenol	0	ug/L	6.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	2-Chloronaphthalene	0	ug/L	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Dimethyl phthalate	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Acenaphthylene	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	2,6-Dinitrotoluene	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Acenaphthene	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	2,4-Dinitrophenol	0	ug/L	6.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	4-Nitrophenol	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	2,4-Dinitrotoluene	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Diethyl phthalate	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Fluorene	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Phenanthrene-D10	50.0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	n-nitrosodiphenylamine	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	1,2-Diphenylhydrazine	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	2,4,6-Tribromophenol	52.9	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Hexachlorobenzene	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Pentachlorophenol	0	ug/L	6.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	n-octadecane	0	ug/L	6.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Phenanthrene	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Anthracene	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	carbazole	0	ug/L	6.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Di-n-butyl phthalate	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Fluoranthene	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Chrysene-d12	50.0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Benzidine	0	ug/L	6.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Pyrene	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Butyl benzyl phthalate	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	3,3-Dichlorobenzidine	0	ug/L	6.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Benzo(a)anthracene	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Chrysene	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Di-n-octyl phthalate	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Perylene-D12	50.0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Benzo(b)fluoranthene	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Benzo(k)fluoranthene	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Benzo(a)pyrene	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Benzo(ghi)perylene	0	ug/L	3.0
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Hexachloroethane	0	ug/L	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	2,3-Dichloroaniline	0	ug/L	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Diethylphthalate	0	ug/L	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Benzo[b]fluoranthene	0	ug/L	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Benzo[k]fluoranthene	0	ug/L	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Dibenz[a,h]anthracene	0	ug/L	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Benzo[ghi]perylene	0	ug/L	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	6,6-Dimethyl-cyclohex-2-en-1-ol T	4	ug/L	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	2-Hexene, 3,5,5-trimethyl- T	19	ug/L	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	2-Hexene, 3,5,5-trimethyl- T2	5	ug/L	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	1-Silacyclo-3-pentene T	4	ug/L	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	2-Pentanone, 4-hydroxy-4-methyl- T	10	ug/L	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	2-Butenal, 3-methyl- T	7	ug/L	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	2,4,4-Trimethyl-1-hexene T	3	ug/L	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Decane, 3,3,4-trimethyl- T	23	ug/L	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	Pentane, 2,3,4-trimethyl- T	5	ug/L	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	2,4,7,9-Tetramethyl-5-decyn-4,7-diol T	6	ug/L	
AC08820	LM52	Little Miami Watershed	52	10/19/2012	09:50	\$625	TOTAL AMOUNT	665	ug/L	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	MF_CF	Fecal Coliform, Membrane Filter	50	CFU/100mL	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	E-COLI	E.coli (Colilert)	45	MPN	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	TDS	Total Dissolved Solids	570	mg/L	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	SO4	Sulfate	78.0	mg/L	25.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	CL	Chloride	160	mg/L	4.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	TSS	Tot. Suspended Solids	2	mg/L	2
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	HARD	Hardness as CaCO3	322	mg/l	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	COD	COD	12	mg/L	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	CONDUCTIVITY-R	Relative Conductivity (uS/cm)	753	uS/cm	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	TEMP_FLD	Temperature (Field) Celsius	11.42	Deg C	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	PH_FLD	pH (Field)	8.07	S.U.	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	DO_FLD	Dissolved Oxygen (field) mg/L	9.54	mg/l	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	CONDUCTIVITY	Specific Conductivity (uS/cm)	1015	uS/cm	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$ICP	Aluminum	0.000	mg/L	0.348
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$ICP	Antimony	0.000	mg/L	0.006
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$ICP	Arsenic	0.000	mg/L	0.012
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$ICP	Barium	0.049	mg/L	0.003
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$ICP	Beryllium	0.000	mg/L	0.009
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$ICP	Cadmium	0.000	mg/L	0.012
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$ICP	Calcium	115.447	mg/L	0.066
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$ICP	Chromium	0.000	mg/L	0.006
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$ICP	Cobalt	0.000	mg/L	0.006
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$ICP	Copper	0.000	mg/L	0.006
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$ICP	Iron	0.033	mg/L	0.018
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$ICP	Lead	0.000	mg/L	0.006
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$ICP	Magnesium	24.738	mg/L	0.021
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$ICP	Manganese	0.000	mg/L	0.009
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$ICP	Nickel	0.000	mg/L	0.003
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$ICP	Selenium	0.029	mg/L	0.009
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$ICP	Silver	0.000	mg/L	0.003
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$ICP	Strontium	0.467	mg/L	0.009
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$ICP	Thallium	0.020	mg/L	0.012
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$ICP	Tin	0.000	mg/L	0.006
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$ICP	Vanadium	0.000	mg/L	0.018
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$ICP	Zinc	0.000	mg/L	0.006
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	PB_FU	Lead by Furnace	0.16	ug/L	0.5
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	AS_FU	Arsenic by Furnace	0.74	ug/L	1.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	CU_FU	Copper by Furnace	3.8	ug/L	1
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	NH3	Ammonia as N	0	mg/L	0.5
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	NO2	Nitrite as N	0.0010	mg/l	0.005
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	NO3	Nitrate as N (calculated)	AW	mg/l	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	Aldrin	AA	ug/L	.02
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	Alpha-BHC	AA	ug/L	.02
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	Beta-BHC	AA	ug/L	.02
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	Delta-BHC	AA	ug/L	.02
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	Gamma-BHC	AA	ug/L	.02
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	Chlordane	AA	ug/L	.01
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	4,4-DDD	AA	ug/L	.02
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	4,4-DDT	AA	ug/L	.03
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	4,4-DDE	AA	ug/L	.02
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	Dieldrin	AA	ug/L	.02
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	Endosulfan I	AA	ug/L	.05
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	Endosulfan II	AA	ug/L	.02
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	Endosulfan sulfate	AA	ug/L	.05
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	Endrin	AA	ug/L	.02
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	Endrin aldehyde	AA	ug/L	.02
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	Heptachlor	AA	ug/L	.02
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	Heptachlor epoxide	AA	ug/L	.05
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	Toxaphene	AA	ug/L	1
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	PCB 1016	AA	ug/L	0.5
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	PCB 1221	AA	ug/L	0.5
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	PCB 1232	AA	ug/L	0.5
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	PCB 1242	AA	ug/L	0.5
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	PCB 1248	AA	ug/L	0.5
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	PCB 1254	AA	ug/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	PCB 1260	AA	ug/L	0.5
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	Surr: Decachlorobiphenyl	65	%	0.645
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$PEST	Surr: Tetrachloro-m-xylene	79	%	0.786
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	Bromochloromethane	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	Chloromethane	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	Vinyl Chloride	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	Bromomethane	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	Chloroethane	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	Trichlorofluoromethane	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	Acrolein	0	ug/L	100.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	1,1-Dichloroethene	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	Acrylonitrile	0	ug/L	100.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	Methylene Chloride	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	Trans-1,2-Dichloroethene	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	1,1-Dichloroethane	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	Chloroform	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	2-Bromo,1-Chloropropane	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	1,2-Dichloroethane	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	1,2-Dichloroethane-d4	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	1,1,1-Trichloroethane	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	Carbon Tetrachloride	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	Benzene	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	Trichloroethene	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	2-Chloroethylvinylether	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	1,2-Dichloropropane	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	Bromodichloromethane	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	cis-1,3-Dichloropropene	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	trans-1,3-Dichloropropene	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	1,1,2-Trichloroethane	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	Dibromochloromethane	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	Bromoform	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	1,4-Dichlorobutane	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624	Tetrachloroethene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624		Toluene	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624		Toluene-d8	100	ug/L	81
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624		Chlorobenzene	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624		Ethylbenzene	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624		Bromofluorobenzene	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624		1,4-Dichlorobenzene	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624		1,2-Dichlorobenzene	0	ug/L	5.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624		2-Propanone	0	ug/L	60
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624		2-Butanone	0	ug/L	60
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624		Dobromofluoromethane (S)	105	ug/L	83
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$624		4-Bromofluorobenzene (S)	100	ug/L	72
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		pyridine	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		n-nitrosodimethylamine	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		2-Fluorophenol	21.5	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		aniline	0	ug/L	6.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Phenol-d6	16.7	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Phenol	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		2-Chlorophenol	0	ug/L	6.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		n-decane	0	ug/L	6.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		o-cresol	0	ug/L	6.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		acetophenone	0	ug/L	6.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		n-nitrosodi-n-propylamine	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Hexachloroethane	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Naphthalene-D8	50.0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Nitrobenzene-d5	51.5	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		p-cresol	0	ug/L	6.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Nitrobenzene	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Isophorone	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Decafluorobiphenyl	54.1	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		2-Nitrophenol	0	ug/L	6.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		2,4-Dimethylphenol	0	ug/L	6.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		2,4-Dichlorophenol	0	ug/L	6.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		1,2,4-Trichlorobenzene	0	ug/L	6.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Naphthalene	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		1-Fluoronaphthalene	57.3	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		alpha terpineol	0	ug/L	6.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Dimethyl phthalate	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Acenaphthylene	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Acenaphthene	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		4-Nitrophenol	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Diethyl phthalate	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Fluorene	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		2,4,6-Tribromophenol	36.5	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Hexachlorobenzene	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Pentachlorophenol	0	ug/L	6.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		n-octadecane	0	ug/L	6.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Phenanthrene	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Anthracene	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		carbazole	0	ug/L	6.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Fluoranthene	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Chrysene-d12	50.0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Benzidine	0	ug/L	6.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Pyrene	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Chrysene	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Perylene-D12	50.0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Hexachloroethane	0	ug/L	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		2,3-Dichloroaniline	0	ug/L	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Diethylphthalate	0	ug/L	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Benzo[b]fluoranthene	0	ug/L	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Benzo[k]fluoranthene	0	ug/L	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Benzo[ghi]perylene	0	ug/L	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Hexane, 1-(hexyloxy)-4-methyl- T	5	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		2-Hexene, 2,5,5-trimethyl- T	19	ug/L	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		2-Hexene, 3,5,5-trimethyl- T	6	ug/L	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		1-Pentene, 3-ethyl-2-methyl- T	4	ug/L	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		3-Heptanol, 4-methyl- T	3	ug/L	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		2-Butenal, 3-methyl- T	7	ug/L	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Pentane, 2,3,4-trimethyl- T	3	ug/L	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Decane, 3,3,4-trimethyl- T	22	ug/L	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		1-Hexene, 4,5-dimethyl- T	2	ug/L	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		Hexane, 3,3,4-trimethyl- T	5	ug/L	
AC08821	LM107	Little Miami Watershed	107	10/19/2012	10:25	\$625		TOTAL AMOUNT	614	ug/L	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$6245		Bromochloromethane	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$6245		Chloromethane	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$6245		Vinyl Chloride	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$6245		Bromomethane	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$6245		Chloroethane	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$6245		Trichlorofluoromethane	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$6245		Acrolein	0	mg/kg	142
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$6245		1,1-Dichloroethene	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$6245		Acrylonitrile	0	mg/kg	142
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$6245		Methylene Chloride	0	mg/kg	28.4
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$6245		Trans-1,2-Dichloroethene	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$6245		1,1-Dichloroethane	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$6245		Chloroform	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$6245		2-Bromo,1-Chloropropane	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$6245		1,2-Dichloroethane	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$6245		1,2-Dichloroethane-d4	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$6245		1,1,1-Trichloroethane	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$6245		Carbon Tetrachloride	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$6245		Benzene	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$6245		Trichloroethene	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$6245		2-Chloroethylvinylether	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$6245		1,2-Dichloropropane	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$6245		Bromodichloromethane	0	mg/kg	7.1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$624S		cis-1,3-Dichloropropene	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$624S		trans-1,3-Dichloropropene	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$624S		1,1,2-Trichloroethane	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$624S		Dibromochloromethane	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$624S		Bromoform	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$624S		1,4-Dichlorobutane	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$624S		Tetrachloroethene	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$624S		1,1,2,2-Tetrachloroethane	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$624S		Toluene	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$624S		Toluene-d8	85	mg/kg	76
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$624S		Chlorobenzene	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$624S		Ethylbenzene	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$624S		Bromofluorobenzene	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$624S		1,3-Dichlorobenzene	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$624S		1,4-Dichlorobenzene	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$624S		1,2-Dichlorobenzene	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$624S		2-Propanone	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$624S		2-Butanone	0	mg/kg	7.1
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$624S		Dibromofluoromethane (S)	107	mg/kg	71
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$624S		4-Bromofluorobenzene (S)	99	mg/kg	67
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S		1,4-Dichlorobenzene-D4	100	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S		pyridine	AA	mg/kg	0.286
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S		n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S		2-Fluorophenol	59	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S		aniline	AA	mg/kg	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S		Phenol-d6	60	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S		Phenol	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S		2-Chlorophenol	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S		n-decane	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S		o-cresol	AA	mg/kg	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S		acetophenone	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Hexachloroethane	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Naphthalene-D8	100	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Nitrobenzene-d5	64	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	p-cresol	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Nitrobenzene	AA	mg/kg	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Isophorone	AA	mg/kg	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Decafluorobiphenyl	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	2-Nitrophenol	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Naphthalene	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	alpha terpineol	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Hexachlorobutadiene	AA	mg/kg	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Acenaphthene-d10	100	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	2,3 dichloroaniline	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	2-Chloronaphthalene	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Dimethyl phthalate	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Acenaphthylene	AA	mg/kg	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Acenaphthene	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	2,4-Dinitrophenol	AA	mg/kg	0.286
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	4-Nitrophenol	AA	mg/kg	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Diethyl phthalate	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Fluorene	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Phenanthrene-D10	100	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	2,4,6-Tribromophenol	60	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Hexachlorobenzene	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Pentachlorophenol	AA	mg/kg	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	n-octadecane	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Phenanthrene	AA	mg/kg	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Anthracene	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	carbazole	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Fluoranthene	AA	mg/kg	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Chrysene-d12	100	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Benzidine	AA	mg/kg	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Pyrene	AA	mg/kg	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Benzo(a)anthracene	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Chrysene	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Perylene-D12	100	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	Aldrin	AA	mg/kg	0.00571
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	Alpha-BHC	AA	mg/kg	0.00571
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	Beta-BHC	AA	mg/kg	0.00571

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	Delta-BHC	AA	mg/kg	0.00571
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	Gamma-BHC	AA	mg/kg	0.00571
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	Chlordane	AA	mg/kg	0.0143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	4,4-DDD	AA	mg/kg	0.00571
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	4,4-DDT	AA	mg/kg	0.00571
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	4,4-DDE	AA	mg/kg	0.00571
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	Dieldrin	AA	mg/kg	0.00571
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	Endosulfan I	AA	mg/kg	0.00571
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	Endosulfan II	AA	mg/kg	0.00571
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	Endosulfan sulfate	AA	mg/kg	0.00571
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	Endrin	AA	mg/kg	0.00571
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	Endrin aldehyde	AA	mg/kg	0.00571
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	Heptachlor	AA	mg/kg	0.00571
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	Heptachlor epoxide	AA	mg/kg	0.00571
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	Toxaphene	AA	mg/kg	0.0286
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	PCB 1016	AA	mg/kg	0.0143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	PCB 1221	AA	mg/kg	0.0143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	PCB 1232	AA	mg/kg	0.0143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	PCB 1242	AA	mg/kg	0.0143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	PCB 1248	AA	mg/kg	0.0143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	PCB 1254	AA	mg/kg	0.0143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PESTS	PCB 1260	AA	mg/kg	0.0143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$ICP_WS	Arsenic_s	2.77	mg/kg	0.13
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$ICP_WS	Cadmium_s	0.05	mg/kg	0.03
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$ICP_WS	Calcium_s	26400	mg/kg	31.8
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$ICP_WS	Copper_s	6.73	mg/kg	0.45
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$ICP_WS	Iron_s	9940	mg/kg	6.37
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$ICP_WS	Lead_s	7.13	mg/kg	0.06
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$ICP_WS	Magnesium_s	5130	mg/kg	12.7
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$ICP_WS	Zinc_s	23.8	mg/kg	1.27
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg- dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Surr: 2,4,6-Tribromophenol	60	%	10
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Surr: 2-Fluorobiphenyl	70	%	25
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Surr: 2-Fluorophenol	59	%	10
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Surr: 4-Terphenyl-d14	90	%	21
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Surr: Nitrobenzene-d5	64	%	21
AC08915	LM10	Little Miami Watershed	10 (3261-10)	10/23/2012	11:00	\$PAH_WS	Surr: Phenol-d6	60	%	17

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	Bromochloromethane	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	Chloromethane	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	Vinyl Chloride	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	Bromomethane	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	Chloroethane	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	Trichlorofluoromethane	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	Acrolein	0	mg/kg	495
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	1,1-Dichloroethene	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	Acrylonitrile	0	mg/kg	495
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	Methylene Chloride	0	mg/kg	99.0
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	1,1-Dichloroethane	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	Chloroform	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	1,2-Dichloroethane	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	1,2-Dichloroethane-d4	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	1,1,1-Trichloroethane	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	Carbon Tetrachloride	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	Benzene	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	Trichloroethene	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	2-Chloroethylvinylether	0	mg/kg	248
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	1,2-Dichloropropane	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	Bromodichloromethane	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	cis-1,3-Dichloropropene	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	trans-1,3-Dichloropropene	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	1,1,2-Trichloroethane	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	Dibromochloromethane	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	Bromoform	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	1,4-Dichlorobutane	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	Tetrachloroethene	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	Toluene	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S	Toluene-d8	89	mg/kg	76

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S		Chlorobenzene	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S		Ethylbenzene	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S		Bromofluorobenzene	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S		1,3-Dichlorobenzene	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S		1,4-Dichlorobenzene	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S		1,2-Dichlorobenzene	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S		2-Propanone	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S		2-Butanone	0	mg/kg	24.8
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S		Dibromofluoromethane (S)	103	mg/kg	71
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$624S		4-Bromofluorobenzene (S)	100	mg/kg	67
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		1,4-Dichlorobenzene-D4	100	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		pyridine	AA	mg/kg	0.286
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		2-Fluorophenol	35	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		aniline	AA	mg/kg	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		Phenol-d6	35	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		Phenol	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		2-Chlorophenol	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		n-decane	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		o-cresol	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		acetophenone	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		Hexachloroethane	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		Naphthalene-D8	100	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		Nitrobenzene-d5	37	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		p-cresol	AA	mg/kg	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		Isophorone	AA	mg/kg	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		Naphthalene	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		Acenaphthene-d10	100	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		Acenaphthene	AA	mg/kg	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		Fluorene	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		Phenanthrene-D10	100	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		2,4,6-Tribromophenol	31	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		n-octadecane	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S		Phenanthrene	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S	Anthracene	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S	carbazole	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S	Fluoranthene	AA	mg/kg	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S	Chrysene-d12	100	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S	Benzidine	AA	mg/kg	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S	Pyrene	AA	mg/kg	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S	Benzo(a)anthracene	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S	Chrysene	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S	Perylene-D12	100	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	Aldrin	AA	mg/kg	.00571
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	Alpha-BHC	AA	mg/kg	.00571
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	Beta-BHC	AA	mg/kg	.00571
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	Delta-BHC	AA	mg/kg	.00571
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	Gamma-BHC	AA	mg/kg	.00571
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	Chlordane	AA	mg/kg	.0143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	4,4-DDD	AA	mg/kg	.00571
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	4,4-DDT	AA	mg/kg	.00571
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	4,4-DDE	AA	mg/kg	.00571
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	Dieldrin	AA	mg/kg	.00571
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	Endosulfan I	AA	mg/kg	.00571
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	Endosulfan II	AA	mg/kg	.00571
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	Endosulfan sulfate	AA	mg/kg	.00571

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	Endrin	AA	mg/kg	.00571
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	Endrin aldehyde	AA	mg/kg	.00571
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	Heptachlor	AA	mg/kg	.00571
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	Heptachlor epoxide	AA	mg/kg	.00571
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	Toxaphene	AA	mg/kg	28.6
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	PCB 1016	AA	mg/kg	.0143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	PCB 1221	AA	mg/kg	.0143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	PCB 1232	AA	mg/kg	.0143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	PCB 1242	AA	mg/kg	.0143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	PCB 1248	AA	mg/kg	.0143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	PCB 1254	AA	mg/kg	.0143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	PCB 1260	AA	mg/kg	.0143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	2,4,5,6 Tetrachloro-m-xylene	389	mg/kg	62
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PESTS	Dexcachlorobiphenyl	425	mg/kg	58
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$ICP_WS	Arsenic_s	5.00	mg/kg	0.89
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$ICP_WS	Cadmium_s	0.52	mg/kg	0.18
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$ICP_WS	Calcium_s	66900	mg/kg	223
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$ICP_WS	Copper_s	23.9	mg/kg	3.12
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$ICP_WS	Iron_s	27000	mg/kg	44.5
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$ICP_WS	Lead_s	26.1	mg/kg	0.45
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$ICP_WS	Magnesium_s	10400	mg/kg	89.0
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$ICP_WS	Zinc_s	129	mg/kg	8.90
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.0857
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Surr: 2,4,6-Tribromophenol	31	%	10
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Surr: 2-Fluorobiphenyl	42	%	25
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Surr: 2-Fluorophenol	35	%	10
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Surr: 4-Terphenyl-d14	53	%	21
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Surr: Nitrobenzene-d5	37	%	21
AC08916	LM09	Little Miami Watershed	9	10/23/2012	10:20	\$PAH_WS	Surr: Phenol-d6	35	%	17
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Bromochloromethane	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Chloromethane	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Vinyl Chloride	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Bromomethane	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Chloroethane	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Trichlorofluoromethane	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Acrolein	0	mg/kg	238
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	1,1-Dichloroethene	0	mg/kg	11.8

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Acrylonitrile	0	mg/kg	238
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Methylene Chloride	0	mg/kg	47.1
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	1,1-Dichloroethane	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Chloroform	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	1,2-Dichloroethane	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	1,2-Dichloroethane-d4	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	1,1,1-Trichloroethane	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Carbon Tetrachloride	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Benzene	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Trichloroethene	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	2-Chloroethylvinylether	0	mg/kg	118
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	1,2-Dichloropropane	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Bromodichloromethane	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	cis-1,3-Dichloropropene	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	trans-1,3-Dichloropropene	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	1,1,2-Trichloroethane	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Dibromochloromethane	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Bromoform	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	1,4-Dichlorobutane	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Tetrachloroethene	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Toluene	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Toluene-d8	88	mg/kg	76
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Chlorobenzene	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Ethylbenzene	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Bromofluorobenzene	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	1,3-Dichlorobenzene	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	1,4-Dichlorobenzene	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	1,2-Dichlorobenzene	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	2-Propanone	0	mg/kg	11.8
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	2-Butanone	0	mg/kg	11.8

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	Dibromofluoromethane (S)	96	mg/kg	71
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$624S	4-Bromofluorobenzene (S)	99	mg/kg	67
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	1,4-Dichlorobenzene-D4	100	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	pyridine	AA	mg/kg	0.286
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	2-Fluorophenol	63	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	aniline	AA	mg/kg	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	Phenol-d6	60	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	Phenol	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	2-Chlorophenol	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	n-decane	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	o-cresol	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	acetophenone	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	Hexachloroethane	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	Naphthalene-D8	100	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	Nitrobenzene-d5	65	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	p-cresol	AA	mg/kg	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	Nitrobenzene	AA	mg/kg	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	Isophorone	AA	mg/kg	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	Decafluorobiphenyl	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	2-Nitrophenol	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	Naphthalene	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	alpha terpineol	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	Hexachlorobutadiene	AA	mg/kg	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	4-Chloro-3-methylphenol	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		Acenaphthene-d10	100	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		Acenaphthene	AA	mg/kg	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		Fluorene	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		Phenanthrene-D10	100	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		2,4,6-Tribromophenol	52	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		n-octadecane	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		Phenanthrene	AA	mg/kg	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		Anthracene	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		carbazole	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		Fluoranthene	AA	mg/kg	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		Chrysene-d12	100	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		Benzidine	AA	mg/kg	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		Pyrene	AA	mg/kg	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S		Butyl benzyl phthalate	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	Benzo(a)anthracene	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	Chrysene	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	Perylene-D12	100	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	Aldrin	AA	ug/kg	0.571
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	Alpha-BHC	AA	ug/kg	0.571
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	Beta-BHC	AA	ug/kg	0.571
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	Delta-BHC	AA	ug/kg	0.571
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	Gamma-BHC	AA	ug/kg	0.571
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	Chlordane	AA	ug/kg	14.3
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	4,4-DDD	AA	ug/kg	0.571
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	4,4-DDT	AA	ug/kg	0.571
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	4,4-DDE	AA	ug/kg	0.571
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	Dieldrin	AA	ug/kg	0.571
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	Endosulfan I	AA	ug/kg	0.571
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	Endosulfan II	AA	ug/kg	0.571
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	Endosulfan sulfate	AA	ug/kg	0.571
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	Endrin	AA	ug/kg	0.571
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	Endrin aldehyde	AA	ug/kg	0.571
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	Heptachlor	AA	ug/kg	0.571
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	Heptachlor epoxide	AA	ug/kg	0.571
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	Toxaphene	AA	ug/kg	28.6
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	PCB 1016	AA	ug/kg	14.3
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	PCB 1221	AA	ug/kg	14.3
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	PCB 1232	AA	ug/kg	14.3

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	PCB 1242	AA	mg/kg	14.3
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	PCB 1248	AA	ug/kg	14.3
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	PCB 1254	AA	ug/kg	14.3
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	PCB 1260	AA	ug/kg	14.3
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	2,4,5,6-Tetrachloro-m-xylene	163	ug/kg	14.3
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PESTS	Decachlorobiphenyl	167	ug/kg	58
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$ICP_WS	Arsenic_s	9.98	mg/kg	0.62
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$ICP_WS	Cadmium_s	0.47	mg/kg	0.12
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$ICP_WS	Calcium_s	97800	mg/kg	155
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$ICP_WS	Copper_s	44.2	mg/kg	2.17
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$ICP_WS	Iron_s	39400	mg/kg	31.0
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$ICP_WS	Lead_s	38.1	mg/kg	0.31
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$ICP_WS	Magnesium_s	16000	mg/kg	62.0
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$ICP_WS	Zinc_s	182	mg/kg	6.20
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Butyl benzyl phathalate	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Surr: 2,4,6-Tribromophenol	52	%	10
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Surr: 2-Fluorobiphenyl	68	%	25
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Surr: 2-Fluorophenol	63	%	10
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Surr: 4-Terphenyl-d14	86	%	21
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Surr: Nitrobenzene-d5	65	%	21
AC08917	LM08	Little Miami Watershed	8 (3261-06)	10/23/2012	09:30	\$PAH_WS	Surr: Phenol-d6	60	%	17
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Bromochloromethane	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Chloromethane	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Vinyl Chloride	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Bromomethane	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Chloroethane	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Trichlorofluoromethane	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Acrolein	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	1,1-Dichloroethene	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Acrylonitrile	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Methylene Chloride	0	mg/kg	51.1
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	1,1-Dichloroethane	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Chloroform	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	1,2-Dichloroethane	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	1,2-Dichloroethane-d4	0	mg/kg	12.8

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Analysis Code	Analysis Description	Results	Units	MDL
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	1,1,1-Trichloroethane	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Carbon Tetrachloride	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Benzene	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Trichloroethene	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	2-Chloroethylvinylether	0	mg/kg	128
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	1,2-Dichloropropane	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Bromodichloromethane	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	cis-1,3-Dichloropropene	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	trans-1,3-Dichloropropene	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	1,1,2-Trichloroethane	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Dibromochloromethane	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Bromoform	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	1,4-Dichlorobutane	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Tetrachloroethene	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Toluene	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Toluene-d8	87	mg/kg	76
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Chlorobenzene	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Ethylbenzene	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Bromofluorobenzene	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	1,3-Dichlorobenzene	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	1,4-Dichlorobenzene	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	1,2-Dichlorobenzene	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	2-Propanone	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	2-Butanone	0	mg/kg	12.8
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	Dibromofluoromethane (S)	105	mg/kg	71
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$624S	4-Bromofluorobenzene (S)	101	mg/kg	67
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S	1,4-Dichlorobenzene-D4	100	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S	pyridine	AA	mg/kg	0.286
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S	2-Fluorophenol	36	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S	aniline	AA	mg/kg	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S	Phenol-d6	34	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Phenol	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		2-Chlorophenol	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		n-decane	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		o-cresol	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		acetophenone	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Hexachloroethane	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Naphthalene-D8	100	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Nitrobenzene-d5	42	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		p-cresol	AA	mg/kg	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Isophorone	AA	mg/kg	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Naphthalene	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Acenaphthene-d10	100	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		2,4,6-Trichlorophenol	42	mg/kg	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Acenaphthene	AA	mg/kg	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Fluorene	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Phenanthrene-D10	100	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		2,4,6-Tribromophenol	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		n-octadecane	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Phenanthrene	AA	mg/kg	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Anthracene	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		carbazole	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Fluoranthene	0.268	mg/kg	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Chrysene-d12	100	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Benzidine	AA	mg/kg	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Pyrene	AA	mg/kg	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Benzo(a)anthracene	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Chrysene	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Perylene-D12	100	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Benzo(b)fluoranthene	AA	mg/kg	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S		Benzo(k)fluoranthene	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	Aldrin	0	ug/kg	0.571
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	Alpha-BHC	0	ug/kg	0.571
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	Beta-BHC	0	ug/kg	0.571
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	Delta-BHC	0	ug/kg	0.571
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	Gamma-BHC	0	ug/kg	0.571
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	Chlordane	0	ug/kg	14.3
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	4,4-DDD	0	ug/kg	0.571
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	4,4-DDT	0	ug/kg	0.571
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	4,4-DDE	0	ug/kg	0.571
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	Dieldrin	0	ug/kg	0.571
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	Endosulfan I	0	ug/kg	0.571
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	Endosulfan II	0	ug/kg	0.571
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	Endosulfan sulfate	0	ug/kg	0.571
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	Endrin	0	ug/kg	0.571
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	Endrin aldehyde	0	ug/kg	0.571
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	Heptachlor	0	ug/kg	0.571
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	Heptachlor epoxide	0	ug/kg	0.571
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	Toxaphene	28.6	ug/kg	0.571
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	PCB 1016	0	ug/kg	14.3
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	PCB 1221	0	ug/kg	14.3
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	PCB 1232	0	ug/kg	14.3
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	PCB 1242	0	ug/kg	14.3
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	PCB 1248	0	ug/kg	14.3
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	PCB 1254	0	ug/kg	14.3
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	PCB 1260	0	ug/kg	14.3
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	2,4,5,6-Tetrachloro-m-xylene	43.9	ug/kg	62
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PESTS	Deccachlorobiphenyl	46.5	ug/kg	58
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$ICP_WS	Arsenic_s	3.75	mg/kg	0.16
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$ICP_WS	Cadmium_s	0.13	mg/kg	0.03

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$ICP_WS	Calcium_s	51400	mg/kg	40.4
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$ICP_WS	Copper_s	12.5	mg/kg	0.57
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$ICP_WS	Iron_s	13400	mg/kg	8.08
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$ICP_WS	Lead_s	12.9	mg/kg	0.08
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$ICP_WS	Magnesium_s	10100	mg/kg	16.2
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$ICP_WS	Zinc_s	49.1	mg/kg	1.62
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	0
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.0857
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Surr: 2,4,6-Tribromophenol	42	%	10
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Surr: 2-Fluorobiphenyl	51	%	25
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Surr: 2-Fluorophenol	36	%	10
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Surr: 4-Terphenyl-d14	69	%	21
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Surr: Nitrobenzene-d5	42	%	21
AC08918	LM07	Little Miami Watershed	7	10/23/2012	09:00	\$PAH_WS	Surr: Phenol-d6	34	%	17
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Bromochloromethane	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Chloromethane	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Vinyl Chloride	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Bromomethane	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Chloroethane	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Trichlorofluoromethane	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Acrolein	0	mg/kg	399
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	1,1-Dichloroethene	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Acrylonitrile	0	mg/kg	399
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Methylene Chloride	0	mg/kg	79.8
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	1,1-Dichloroethane	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Chloroform	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	1,2-Dichloroethane	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	1,2-Dichloroethane-d4	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	1,1,1-Trichloroethane	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Carbon Tetrachloride	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Benzene	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Trichloroethene	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	2-Chloroethylvinylether	0	mg/kg	200
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	1,2-Dichloropropane	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Bromodichloromethane	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	cis-1,3-Dichloropropene	0	mg/kg	20

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	trans-1,3-Dichloropropene	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	1,1,2-Trichloroethane	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Dibromochloromethane	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Bromoform	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	1,4-Dichlorobutane	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Tetrachloroethene	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Toluene	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Toluene-d8	90	mg/kg	76
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Chlorobenzene	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Ethylbenzene	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Bromofluorobenzene	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	1,3-Dichlorobenzene	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	1,4-Dichlorobenzene	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	1,2-Dichlorobenzene	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	2-Propanone	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	2-Butanone	0	mg/kg	20
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	Dibromofluoromethane (S)	106	mg/kg	71
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$624S	4-Bromofluorobenzene (S)	102	mg/kg	67
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	1,4-Dichlorobenzene-D4	100	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	pyridine	AA	mg/kg	0.286
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	2-Fluorophenol	50	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	aniline	AA	mg/kg	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Phenol-d6	48	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Phenol	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	2-Chlorophenol	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	n-decane	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	o-cresol	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	acetophenone	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	n-nitrosodi-n-propylamine	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Hexachloroethane	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Naphthalene-D8	100	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Nitrobenzene-d5	57	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	p-cresol	AA	mg/kg	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Nitrobenzene	AA	mg/kg	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Isophorone	AA	mg/kg	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Decafluorobiphenyl	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	2-Nitrophenol	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Naphthalene	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	alpha terpineol	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Hexachlorobutadiene	AA	mg/kg	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Acenaphthene-d10	100	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	2,3 dichloroaniline	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	2-Chloronaphthalene	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Dimethyl phthalate	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Acenaphthylene	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Acenaphthene	AA	mg/kg	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	2,4-Dinitrophenol	AA	mg/kg	0.286
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	4-Nitrophenol	AA	mg/kg	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Diethyl phthalate	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Fluorene	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Phenanthrene-D10	100	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	2,4,6-Tribromophenol	60	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Hexachlorobenzene	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Pentachlorophenol	AA	mg/kg	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	n-octadecane	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Phenanthrene	AA	mg/kg	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Anthracene	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	carbazole	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Fluoranthene	AA	mg/kg	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Chrysene-d12	100	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Benzidine	AA	mg/kg	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Pyrene	AA	mg/kg	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Benzo(a)anthracene	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Chrysene	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Perylene-D12	100	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	Aldrin	AA	ug/kg	0.571
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	Alpha-BHC	AA	ug/kg	0.571
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	Beta-BHC	AA	ug/kg	0.571
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	Delta-BHC	AA	ug/kg	0.571

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	Gamma-BHC	AA	ug/kg	0.571
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	Chlordane	AA	ug/kg	14.3
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	4,4-DDD	AA	ug/kg	0.571
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	4,4-DDT	AA	ug/kg	0.571
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	4,4-DDE	AA	ug/kg	0.571
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	Dieldrin	AA	ug/kg	0.571
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	Endosulfan I	AA	ug/kg	0.571
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	Endosulfan II	AA	ug/kg	0.571
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	Endosulfan sulfate	AA	ug/kg	0.571
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	Endrin	AA	ug/kg	0.571
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	Endrin aldehyde	AA	ug/kg	0.571
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	Heptachlor	AA	ug/kg	0.57
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	Heptachlor epoxide	AA	ug/kg	0.57
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	Toxaphene	AA	ug/kg	28.6
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	PCB 1016	AA	ug/kg	14.3
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	PCB 1221	AA	ug/kg	14.3
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	PCB 1232	AA	ug/kg	14.3
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	PCB 1242	AA	ug/kg	14.3
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	PCB 1248	AA	ug/kg	14.3
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	PCB 1254	AA	ug/kg	14.3
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	PCB 1260	AA	ug/kg	14.3
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	2,4,5,6Tetrachloro-m-xylene	46.5	ug/kg	62
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PESTS	Decachlorobiphenyl	47.8	ug/kg	58
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$ICP_WS	Arsenic_s	4.68	mg/kg	0.24
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$ICP_WS	Cadmium_s	0.14	mg/kg	0.05
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$ICP_WS	Calcium_s	29700	mg/kg	60.8
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$ICP_WS	Copper_s	23.7	mg/kg	0.85
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$ICP_WS	Iron_s	19200	mg/kg	12.2
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$ICP_WS	Lead_s	17.6	mg/kg	0.12
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$ICP_WS	Magnesium_s	5920	mg/kg	24.3
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$ICP_WS	Zinc_s	94.3	mg/kg	2.43
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	0
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Surr: 2,4,6-Tribromophenol	60	%	10
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Surr: 2-Fluorobiphenyl	68	%	25
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Surr: 2-Fluorophenol	50	%	10
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Surr: 4-Terphenyl-d14	91	%	21
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Surr: Nitrobenzene-d5	57	%	21



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08919	LM37	Little Miami Watershed	37	10/23/2012	08:20	\$PAH_WS	Surr: Phenol-d6	48	%	17
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Bromochloromethane	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Chloromethane	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Vinyl Chloride	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Bromomethane	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Chloroethane	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Trichlorofluoromethane	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Acrolein	0	mg/kg	154
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	1,1-Dichloroethene	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Acrylonitrile	0	mg/kg	154
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Methylene Chloride	0	mg/kg	30.8
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	1,1-Dichloroethane	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Chloroform	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	1,2-Dichloroethane	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	1,2-Dichloroethane-d4	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	1,1,1-Trichloroethane	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Carbon Tetrachloride	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Benzene	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Trichloroethene	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	2-Chloroethylvinylether	0	mg/kg	77.0
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	1,2-Dichloropropane	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Bromodichloromethane	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	cis-1,3-Dichloropropene	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	trans-1,3-Dichloropropene	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	1,1,2-Trichloroethane	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Dibromochloromethane	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Bromoform	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	1,4-Dichlorobutane	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Tetrachloroethene	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Toluene	0	mg/kg	7.7

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Toluene-d8	89	mg/kg	76
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Chlorobenzene	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Ethylbenzene	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Bromofluorobenzene	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	1,3-Dichlorobenzene	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	1,4-Dichlorobenzene	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	1,2-Dichlorobenzene	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	2-Propanone	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	2-Butanone	0	mg/kg	7.7
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	Dibromofluoromethane (S)	107	mg/kg	71
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$624S	4-Bromofluorobenzenw (S)	103	mg/kg	67
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	1,4-Dichlorobenzene-D4	100	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	pyridine	AA	mg/kg	0.286
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	2-Fluorophenol	54	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	aniline	AA	mg/kg	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Phenol-d6	52	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Phenol	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	2-Chlorophenol	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	n-decane	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	o-cresol	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	acetophenone	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Hexachloroethane	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Naphthalene-D8	100	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Nitrobenzene-d5	62	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	p-cresol	AA	mg/kg	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Nitrobenzene	AA	mg/kg	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Isophorone	AA	mg/kg	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Decafluorobiphenyl	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	2-Nitrophenol	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		Naphthalene	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		Acenaphthene-d10	100	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		Acenaphthene	AA	mg/kg	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		Fluorene	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		Phenanthrene-D10	100	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		2,4,6-Tribromophenol	59	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S		n-octadecane	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Phenanthrene	AA	mg/kg	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Anthracene	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	carbazole	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Fluoranthene	AA	mg/kg	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Chrysene-d12	100	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Benzidine	AA	mg/kg	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Pyrene	AA	mg/kg	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Benzo(a)anthracene	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Chrysene	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Perylene-D12	100	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	Aldrin	AA	ug/kg	0.571
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	Alpha-BHC	AA	ug/kg	0.571
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	Beta-BHC	AA	ug/kg	0.571
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	Delta-BHC	AA	ug/kg	0.571
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	Gamma-BHC	AA	ug/kg	0.571
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	Chlordane	AA	ug/kg	0.571
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	4,4-DDD	AA	ug/kg	0.571
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	4,4-DDT	AA	ug/kg	0.571
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	4,4-DDE	AA	ug/kg	0.571
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	Dieldrin	AA	ug/kg	0.571
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	Endosulfan I	AA	ug/kg	0.571
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	Endosulfan II	AA	ug/kg	0.571

Appendix E. Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	Endosulfan sulfate	AA	ug/kg	0.571
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	Endrin	AA	ug/kg	0.571
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	Endrin aldehyde	AA	ug/kg	0.571
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	Heptachlor	AA	ug/kg	0.571
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	Heptachlor epoxide	AA	ug/kg	0.571
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	Toxaphene	AA	ug/kg	0.571
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	PCB 1016	AA	ug/kg	14.3
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	PCB 1221	AA	ug/kg	14.3
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	PCB 1232	AA	ug/kg	14.3
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	PCB 1242	AA	ug/kg	14.3
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	PCB 1248	AA	ug/kg	14.3
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	PCB 1254	AA	ug/kg	14.3
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	PCB 1260	AA	ug/kg	14.3
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	2,4,5,6 Tetrachloro-m-xylene	37.6	ug/kg	62
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PESTS	Decachlorobiphenyl	36.2	ug/kg	58
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$ICP_WS	Arsenic_s	3.78	mg/kg	0.13
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$ICP_WS	Cadmium_s	0.15	mg/kg	0.03
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$ICP_WS	Calcium_s	41300	mg/kg	33.1
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$ICP_WS	Copper_s	10.9	mg/kg	0.46
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$ICP_WS	Iron_s	14900	mg/kg	66.2
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$ICP_WS	Lead_s	7.98	mg/kg	0.07
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$ICP_WS	Magnesium_s	8830	mg/kg	13.2
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$ICP_WS	Zinc_s	31.9	mg/kg	1.32
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Azobenzene	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Fluoranthene	0.276	ug/kg-dry	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Surr: 2,4,6-Tribromophenol	59	%	10
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Surr: 2-Fluorobiphenyl	70	%	25
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Surr: 2-Fluorophenol	54	%	10
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Surr: 4-Terphenyl-d14	91	%	21
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Surr: Nitrobenzene-d5	62	%	21
AC08920	LM60	Little Miami Watershed	60	10/22/2012	19:00	\$PAH_WS	Surr: Phenol-d6	52	%	17
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S	Bromochloromethane	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S	Chloromethane	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S	Vinyl Chloride	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S	Bromomethane	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S	Chloroethane	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S	Trichlorofluoromethane	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S	Acrolein	0	mg/kg	376



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		1,1-Dichloroethene	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		Acrylonitrile	0	mg/kg	376
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		Methylene Chloride	0	mg/kg	75.2
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		Trans-1,2-Dichloroethene	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		1,1-Dichloroethane	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		Chloroform	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		2-Bromo,1-Chloropropane	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		1,2-Dichloroethane	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		1,2-Dichloroethane-d4	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		1,1,1-Trichloroethane	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		Carbon Tetrachloride	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		Benzene	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		Trichloroethene	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		2-Chloroethylvinylether	0	mg/kg	188
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		1,2-Dichloropropane	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		Bromodichloromethane	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		cis-1,3-Dichloropropene	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		trans-1,3-Dichloropropene	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		1,1,2-Trichloroethane	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		Dibromochloromethane	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		Bromoform	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		1,4-Dichlorobutane	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		Tetrachloroethene	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		1,1,2,2-Tetrachloroethane	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		Toluene	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		Toluene-d8	85	mg/kg	76
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		Chlorobenzene	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		Ethylbenzene	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		Bromofluorobenzene	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		1,3-Dichlorobenzene	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		1,4-Dichlorobenzene	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		1,2-Dichlorobenzene	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		2-Propanone	0	mg/kg	18.8

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		2-Butanone	0	mg/kg	18.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		Dibromofluoromethane (S)	101	mg/kg	71
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$624S		4-Bromofluorobenzene (S)	101	mg/kg	67
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		1,4-Dichlorobenzene-D4	100	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		pyridine	AA	mg/kg	0.286
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		2-Fluorophenol	42	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		aniline	AA	mg/kg	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Phenol-d6	42	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Phenol	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		2-Chlorophenol	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		n-decane	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		o-cresol	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		acetophenone	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Hexachloroethane	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Naphthalene-D8	100	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Nitrobenzene-d5	50	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		p-cresol	AA	mg/kg	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Isophorone	AA	mg/kg	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Naphthalene	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Acenaphthene-d10	100	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Acenaphthene	AA	mg/kg	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Fluorene	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Phenanthrene-D10	100	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		2,4,6-Tribromophenol	57	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		n-octadecane	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Phenanthrene	AA	mg/kg	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Anthracene	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		carbazole	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Fluoranthene	AA	mg/kg	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Chrysene-d12	100	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Benzidine	AA	mg/kg	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S		Pyrene	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S	Benzo(a)anthracene	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S	Chrysene	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S	Perylene-D12	100	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	Aldrin	AA	UG/KG	0.571
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	Alpha-BHC	AA	UG/KG	0.571
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	Beta-BHC	AA	UG/KG	0.571
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	Delta-BHC	AA	UG/KG	0.571
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	Gamma-BHC	AA	UG/KG	0.571
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	Chlordane	AA	UG/KG	0.571
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	4,4-DDD	AA	UG/KG	0.571
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	4,4-DDT	AA	UG/Kg	0.571
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	4,4-DDE	AA	ug/kg	0.571
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	Dieldrin	AA	ug/kg	0.571
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	Endosulfan I	AA	ug/kg	0.571
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	Endosulfan II	AA	ug/kg	0.571
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	Endosulfan sulfate	AA	ug/kg	0.571
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	Endrin	AA	ug/kg	0.571
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	Endrin aldehyde	AA	mg/kg	0.571
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	Heptachlor	AA	ug/kg	0.571
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	Heptachlor epoxide	AA	ug/kg	0.571
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	Toxaphene	AA	ug/kg	28.6
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	PCB 1016	AA	ug/kg	14.3
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	PCB 1221	AA	ug/kg	14.3

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	PCB 1232	AA	ug/kg	14.3
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	PCB 1242	AA	ug/kg	14.3
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	PCB 1248	AA	ug/kg	14.3
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	PCB 1254	AA	ug/kg	14.3
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	PCB 1260	AA	ug/kg	14.3
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	2,4,5,6, Terachloro-m-xylene	38.5	ug/kg	62
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PESTS	Decachlorobiphenyl	38.3	ug/kg	58
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$ICP_WS	Arsenic_s	2.30	mg/kg	0.16
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$ICP_WS	Cadmium_s	0.12	mg/kg	0.03
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$ICP_WS	Calcium_s	34300	mg/kg	39.6
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$ICP_WS	Copper_s	17.7	mg/kg	0.55
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$ICP_WS	Iron_s	11100	mg/kg	7.92
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$ICP_WS	Lead_s	9.97	mg/kg	0.08
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$ICP_WS	Magnesium_s	6610	mg/kg	15.8
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$ICP_WS	Zinc_s	47.9	mg/kg	1.58
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Surr: 2,4,6-Tribromophenol	57	%	10
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Surr: 2-Fluorobiphenyl	60	%	25
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Surr: 2-Fluorophenol	42	%	10
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Surr: 4-Terphenyl-d14	79	%	21
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Surr: Nitrobenzene-d5	50	%	21
AC08921	LM04	Little Miami Watershed	4	10/22/2012	15:20	\$PAH_WS	Surr: Phenol-d6	42	%	17
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Bromochloromethane	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Chloromethane	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Vinyl Chloride	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Bromomethane	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Chloroethane	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Trichlorofluoromethane	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Acrolein	0	mg/kg	324
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	1,1-Dichloroethene	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Acrylonitrile	0	mg/kg	324
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Methylene Chloride	0	mg/kg	64.9
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	1,1-Dichloroethane	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Chloroform	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	1,2-Dichloroethane	0	mg/kg	16.2



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	1,2-Dichloroethane-d4	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	1,1,1-Trichloroethane	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Carbon Tetrachloride	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Benzene	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Trichloroethene	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	2-Chloroethylvinylether	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	1,2-Dichloropropane	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Bromodichloromethane	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	cis-1,3-Dichloropropene	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	trans-1,3-Dichloropropene	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	1,1,2-Trichloroethane	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Dibromochloromethane	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Bromoform	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	1,4-Dichlorobutane	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Tetrachloroethene	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Toluene	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Toluene-d8	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Chlorobenzene	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Ethylbenzene	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Bromofluorobenzene	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	1,3-Dichlorobenzene	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	1,4-Dichlorobenzene	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	1,2-Dichlorobenzene	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	2-Propanone	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	2-Butanone	0	mg/kg	16.2
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	Dibromofluoromethane (S)	107	mg/kg	71
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$624S	4-Bromofluorobenzene (S)	99	mg/kg	67
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	1,4-Dichlorobenzene-D4	100	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	pyridine	AA	mg/kg	0.286
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	2-Fluorophenol	41	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	aniline	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	Phenol-d6	38	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	Phenol	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	2-Chlorophenol	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	n-decane	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	o-cresol	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	acetophenone	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	Hexachloroethane	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	Naphthalene-D8	100	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	Nitrobenzene-d5	48	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	p-cresol	AA	mg/kg	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	Nitrobenzene	AA	mg/kg	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	Isophorone	AA	mg/kg	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	Decafluorobiphenyl	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	2-Nitrophenol	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	Naphthalene	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	alpha terpineol	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	Hexachlorobutadiene	AA	mg/kg	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	Acenaphthene-d10	100	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	2,3 dichloroaniline	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	2-Chloronaphthalene	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	Dimethyl phthalate	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	Acenaphthylene	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		Acenaphthene	AA	mg/kg	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		Fluorene	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		Phenanthrene-D10	100	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		2,4,6-Tribromophenol	54	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		n-octadecane	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		Phenanthrene	AA	mg/kg	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		Anthracene	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		carbazole	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		Fluoranthene	AA	mg/kg	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		Chrysene-d12	100	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		Benzidine	AA	mg/kg	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		Pyrene	AA	mg/kg	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		Benzo(a)anthracene	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		Chrysene	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		Perylene-D12	100	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S		Benzo(b)fluoranthene	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	Aldrin	AA	ug/kg	0.571
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	Alpha-BHC	AA	ug/kg	0.571
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	Beta-BHC	AA	ug/kg	0.571
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	Delta-BHC	AA	ug/kg	0.571
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	Gamma-BHC	AA	ug/kg	0.571
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	Chlordane	AA	ug/kg	14.3
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	4,4-DDD	AA	ug/kg	0.571
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	4,4-DDT	AA	ug/kg	0.571
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	4,4-DDE	AA	ug/kg	0.571
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	Dieldrin	AA	ug/kg	0.571
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	Endosulfan I	AA	ug/kg	0.571
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	Endosulfan II	AA	ug/kg	0.571
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	Endosulfan sulfate	AA	ug/kg	0.571
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	Endrin	AA	ug/kg	0.571
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	Endrin aldehyde	AA	ug/kg	0.571
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	Heptachlor	AA	ug/kg	0.571
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	Heptachlor epoxide	AA	ug/kg	0.571
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	Toxaphene	AA	ug/kg	28.6
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	PCB 1016	AA	ug/kg	14.3
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	PCB 1221	AA	ug/kg	14.3
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	PCB 1232	AA	ug/kg	14.3
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	PCB 1242	AA	ug/kg	14.3
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	PCB 1248	AA	ug/kg	14.3
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	PCB 1254	AA	ug/kg	14.3
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	PCB 1260	AA	ug/kg	14.3
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	2,4,5,6 Tetrachloro-m-xylene	91.2	ug/kg	62
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PESTS	Decachlorobiphenyl	91.1	ug/kg	58
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$ICP_WS	Arsenic_s	5.01	mg/kg	0.37

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$ICP_WS	Cadmium_s	0.18	mg/kg	0.07
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$ICP_WS	Calcium_s	40700	mg/kg	92.1
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$ICP_WS	Copper_s	19.9	mg/kg	1.29
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$ICP_WS	Iron_s	19200	mg/kg	18.4
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$ICP_WS	Lead_s	17.9	mg/kg	0.18
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$ICP_WS	Magnesium_s	7710	mg/kg	36.8
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$ICP_WS	Zinc_s	88.4	mg/kg	3.68
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Surr: 2,4,6-Tribromophenol	54	%	10
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Surr: 2-Fluorobiphenyl	55	%	25
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Surr: 2-Fluorophenol	41	%	10
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Surr: 4-Terphenyl-d14	78	%	21
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Surr: Nitrobenzene-d5	48	%	21
AC08922	LM05	Little Miami Watershed	5 (3261-08)	10/22/2012	15:50	\$PAH_WS	Surr: Phenol-d6	38	%	17
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Bromochloromethane	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Chloromethane	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Vinyl Chloride	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Bromomethane	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Chloroethane	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Trichlorofluoromethane	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Acrolein	0	mg/kg	324
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	1,1-Dichloroethene	0	mg/kg	16.1
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Acrylonitrile	0	mg/kg	324
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Methylene Chloride	0	mg/kg	64.9
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	1,1-Dichloroethane	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Chloroform	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	1,2-Dichloroethane	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	1,2-Dichloroethane-d4	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	1,1,1-Trichloroethane	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Carbon Tetrachloride	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Benzene	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Trichloroethene	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	2-Chloroethylvinylether	0	mg/kg	162
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	1,2-Dichloropropane	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Bromodichloromethane	0	mg/kg	16.2



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	cis-1,3-Dichloropropene	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	trans-1,3-Dichloropropene	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	1,1,2-Trichloroethane	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Dibromochloromethane	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Bromoform	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	1,4-Dichlorobutane	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Tetrachloroethene	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Toluene	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Toluene-d8	85	mg/kg	76
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Chlorobenzene	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Ethylbenzene	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Bromofluorobenzene	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	1,3-Dichlorobenzene	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	1,4-Dichlorobenzene	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	1,2-Dichlorobenzene	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	2-Propanone	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	2-Butanone	0	mg/kg	16.2
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	Dibromofluoromethanr (S)	107	mg/mg	71
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$624S	4-Bromofluorobenzene (S)	99	mg/mg	67
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	1,4-Dichlorobenzene-D4	100	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	pyridine	AA	mg/kg	0.286
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	2-Fluorophenol	44	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	aniline	AA	mg/kg	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Phenol-d6	44	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Phenol	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	2-Chlorophenol	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	n-decane	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	o-cresol	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	acetophenone	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Hexachloroethane	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Naphthalene-D8	100	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Nitrobenzene-d5	52	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	p-cresol	AA	mg/kg	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Nitrobenzene	AA	mg/kg	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Isophorone	AA	mg/kg	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Decafluorobiphenyl	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	2-Nitrophenol	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Naphthalene	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	alpha terpineol	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Hexachlorobutadiene	AA	mg/kg	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Acenaphthene-d10	100	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	2,3 dichloroaniline	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	2-Chloronaphthalene	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Dimethyl phthalate	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Acenaphthylene	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Acenaphthene	AA	mg/kg	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	2,4-Dinitrophenol	AA	mg/kg	0.286
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	4-Nitrophenol	AA	mg/kg	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Diethyl phthalate	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Fluorene	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Phenanthrene-D10	100	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	2,4,6-Tribromophenol	59	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Hexachlorobenzene	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Pentachlorophenol	AA	mg/kg	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	n-octadecane	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Phenanthrene	AA	mg/kg	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Anthracene	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	carbazole	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Fluoranthene	AA	mg/kg	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Chrysene-d12	100	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Benzidine	AA	mg/kg	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Pyrene	AA	mg/kg	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Benzo(a)anthracene	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Chrysene	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Perylene-D12	100	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	Aldrin	0	ug/kg	0.571
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	Alpha-BHC	0	ug/kg	0.571
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	Beta-BHC	0	ug/kg	0.571

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	Delta-BHC	0	ug/kg	0.571
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	Gamma-BHC	0	ug/kg	0.571
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	Chlordane	0	ug/kg	14.3
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	4,4-DDD	0	ug/kg	0.571
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	4,4-DDT	0	ug/kg	0.571
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	4,4-DDE	0	ug/kg	0.571
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	Dieldrin	0	ug/kg	0.571
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	Endosulfan I	0	ug/kg	0.571
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	Endosulfan II	0	ug/kg	0.571
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	Endosulfan sulfate	0	ug/kg	0.571
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	Endrin	0	ug/kg	0.571
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	Endrin aldehyde	0	ug/kg	0.571
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	Heptachlor	0	ug/kg	0.571
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	Heptachlor epoxide	0	ug/kg	0.571
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	Toxaphene	0	ug/kg	0.571
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	PCB 1016	0	ug/kg	14.3
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	PCB 1221	0	ug/kg	14.3
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	PCB 1232	0	ug/kg	14.3
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	PCB 1242	0	ug/kg	14.3
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	PCB 1248	0	ug/kg	14.3
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	PCB 1254	0	ug/kg	14.3
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	PCB 1260	0	ug/kg	14.3
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	2,4,5,6 Tetrachloro-m-xylene	49.3	ug/kg	62
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PESTS	Decachlorobiphenyl	46.0	ug/kg	58
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$ICP_WS	Arsenic_s	3.54	mg/kg	0.19
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$ICP_WS	Cadmium_s	0.13	mg/kg	0.04
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$ICP_WS	Calcium_s	42800	mg/kg	47.3
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$ICP_WS	Copper_s	13.0	mg/kg	0.66
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$ICP_WS	Iron_s	13200	mg/kg	9.46
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$ICP_WS	Lead_s	12.7	mg/kg	0.09
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$ICP_WS	Magnesium_s	8950	mg/kg	18.9
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$ICP_WS	Zinc_s	49.5	mg/kg	1.89
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Diphenylamine	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Fluoranthene	0.384	ug/kg-dry	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Surr: 2,4,6-Tribromophenol	59	%	10
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Surr: 2-Fluorobiphenyl	61	%	25
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Surr: 2-Fluorophenol	44	%	10
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Surr: 4-Terphenyl-d14	80	%	21

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Surr: Nitrobenzene-d5	52	%	21
AC08923	LM06	Little Miami Watershed	6 (3261-07)	10/22/2012	16:15	\$PAH_WS	Surr: Phenol-d6	44	%	17
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	Bromochloromethane	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	Chloromethane	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	Vinyl Chloride	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	Bromomethane	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	Chloroethane	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	Trichlorofluoromethane	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	Acrolein	0	mg/kg	192
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	1,1-Dichloroethene	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	Acrylonitrile	0	mg/kg	192
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	Methylene Chloride	0	mg/kg	38.4
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	1,1-Dichloroethane	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	Chloroform	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	1,2-Dichloroethane	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	1,2-Dichloroethane-d4	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	1,1,1-Trichloroethane	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	Carbon Tetrachloride	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	Benzene	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	Trichloroethene	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	2-Chloroethylvinylether	0	mg/kg	96
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	1,2-Dichloropropane	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	Bromodichloromethane	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	cis-1,3-Dichloropropene	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	trans-1,3-Dichloropropene	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	1,1,2-Trichloroethane	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	Dibromochloromethane	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	Bromoform	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	1,4-Dichlorobutane	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	Tetrachloroethene	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	9.6



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S		Toluene	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S		Toluene-d8	89	mg/kg	76
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S		Chlorobenzene	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S		Ethylbenzene	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S		Bromofluorobenzene	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S		1,3-Dichlorobenzene	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S		1,4-Dichlorobenzene	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S		1,2-Dichlorobenzene	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S		2-Propanone	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S		2-Butanone	0	mg/kg	9.6
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S		Dibromofluoromethane (S)	105	mg/kg	71
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$624S		4-Bromofluorobenzene (S)	98	mg/kg	67
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		1,4-Dichlorobenzene-D4	100	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		pyridine	AA	mg/kg	0.286
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		2-Fluorophenol	30	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		aniline	AA	mg/kg	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Phenol-d6	23	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Phenol	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		2-Chlorophenol	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		n-decane	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		o-cresol	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		acetophenone	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Hexachloroethane	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Naphthalene-D8	100	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Nitrobenzene-d5	42	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		p-cresol	AA	mg/kg	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Isophorone	AA	mg/kg	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	2-Nitrophenol	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	Naphthalene	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	alpha terpineol	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	Hexachlorobutadiene	AA	mg/kg	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	Acenaphthene-d10	100	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	2,3 dichloroaniline	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	2-Chloronaphthalene	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	Dimethyl phthalate	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	Acenaphthylene	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	Acenaphthene	AA	mg/kg	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	2,4-Dinitrophenol	AA	mg/kg	0.286
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	4-Nitrophenol	AA	mg/kg	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	Diethyl phthalate	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	Fluorene	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	Phenanthrene-D10	100	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	2,4,6-Tribromophenol	27	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	Hexachlorobenzene	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S	Pentachlorophenol	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		n-octadecane	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Phenanthrene	AA	mg/kg	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Anthracene	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		carbazole	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Fluoranthene	AA	mg/kg	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Chrysene-d12	100	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Benzidine	AA	mg/kg	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Pyrene	AA	mg/kg	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Benzo(a)anthracene	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Chrysene	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Perylene-D12	100	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Benzo(b)fluoranthene	AA	mg/kg	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Benzo(a)pyrene	AA	mg/kg	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$625S		Benzo(ghi)perylene	AA	mg/kg	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS		Aldrin	0	ug/kg	0.571
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS		Alpha-BHC	0	ug/kg	0.571
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS		Beta-BHC	0	ug/kg	0.571
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS		Delta-BHC	0	ug/kg	0.571
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS		Gamma-BHC	0	ug/kg	0.571
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS		Chlordane	0	ug/kg	0.571
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS		4,4-DDD	0	ug/kg	0.571
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS		4,4-DDT	0	ug/kg	0.571
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS		4,4-DDE	0	ug/kg	0.571
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS		Dieldrin	0	ug/kg	0.571
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS		Endosulfan I	0	ug/kg	0.27

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS	Endosulfan II	0	ug/kg	0.571
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS	Endosulfan sulfate	0	ug/kg	0.571
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS	Endrin	0	ug/kg	0.571
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS	Endrin aldehyde	0	ug/kg	0.571
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS	Heptachlor	0	ug/kg	0.571
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS	Heptachlor epoxide	0	ug/kg	0.571
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS	Toxaphene	0	ug/kg	0.571
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS	PCB 1016	0	ug/kg	14.3
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS	PCB 1221	0	ug/kg	14.3
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS	PCB 1232	0	ug/kg	14.3
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS	PCB 1242	0	ug/kg	14.3
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS	PCB 1248	0	ug/kg	14.3
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS	PCB 1254	0	ug/kg	14.3
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS	PCB 1260	0	ug/kg	14.3
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS	2,4,5,6Tetrachloro- m-xylene	43.8	ug/kg	14.3
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PESTS	Decachlorobiphenyl	45.5	ug/kg	62
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$ICP_WS	Arsenic_s	2.45	mg/kg	0.15
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$ICP_WS	Cadmium_s	0.14	mg/kg	0.03
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$ICP_WS	Calcium_s	23900	mg/kg	38.5
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$ICP_WS	Copper_s	11.6	mg/kg	0.54
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$ICP_WS	Iron_s	9890	mg/kg	7.69
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$ICP_WS	Lead_s	9.52	mg/kg	0.08
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$ICP_WS	Magnesium_s	4480	mg/kg	15.4
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$ICP_WS	Zinc_s	47.6	mg/kg	1.54
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg- dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Fluoranthene	1.170	ug/kg-dry	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Surr: 2,4,6-Tribromophenol	27	%	10
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Surr: 2-Fluorobiphenyl	58	%	25
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Surr: 2-Fluorophenol	30	%	10
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Surr: 4-Terphenyl-d14	79	%	21
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Surr: Nitrobenzene-d5	42	%	21
AC08924	LM52	Little Miami Watershed	52	10/22/2012	16:40	\$PAH_WS	Surr: Phenol-d6	23	%	17
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$624S	Bromochloromethane	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$624S	Chloromethane	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$624S	Vinyl Chloride	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$624S	Bromomethane	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$624S	Chloroethane	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$624S	Trichlorofluoromethane	0	mg/kg	7.7

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		Acrolein	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		1,1-Dichloroethene	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		Acrylonitrile	0	mg/kg	154
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		Methylene Chloride	0	mg/kg	30.9
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		Trans-1,2-Dichloroethene	0	mg/kg	154
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		1,1-Dichloroethane	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		Chloroform	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		2-Bromo,1-Chloropropane	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		1,2-Dichloroethane	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		1,2-Dichloroethane-d4	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		1,1,1-Trichloroethane	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		Carbon Tetrachloride	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		Benzene	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		Trichloroethene	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		2-Chloroethylvinylether	0	mg/kg	77.2
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		1,2-Dichloropropane	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		Bromodichloromethane	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		cis-1,3-Dichloropropene	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		trans-1,3-Dichloropropene	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		1,1,2-Trichloroethane	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		Dibromochloromethane	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		Bromoform	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		1,4-Dichlorobutane	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		Tetrachloroethene	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		1,1,2,2-Tetrachloroethane	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		Toluene	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		Toluene-d8	87	mg/kg	76
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		Chlorobenzene	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		Ethylbenzene	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		Bromofluorobenzene	102	mg/kg	67
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		1,3-Dichlorobenzene	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		1,4-Dichlorobenzene	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$6245		1,2-Dichlorobenzene	0	mg/kg	7.7



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$624S		2-Propanone	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$624S		2-Butanone	0	mg/kg	7.7
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$624S		Dibromofluorobenzene (S)	101	mg/kg	71
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		1,4-Dichlorobenzene-D4	100	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		pyridine	AA	mg/kg	0.286
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		2-Fluorophenol	30	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		aniline	AA	mg/kg	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Phenol-d6	20	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Phenol	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		2-Chlorophenol	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		n-decane	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		o-cresol	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		acetophenone	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Hexachloroethane	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Naphthalene-D8	100	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Nitrobenzene-d5	41	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		p-cresol	AA	mg/kg	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Isophorone	AA	mg/kg	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Naphthalene	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Acenaphthene-d10	100	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Acenaphthene	AA	mg/kg	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Fluorene	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Phenanthrene-D10	100	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		2,4,6-Tribromophenol	27	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		n-octadecane	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Phenanthrene	AA	mg/kg	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Anthracene	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		carbazole	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Fluoranthene	AA	mg/kg	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Chrysene-d12	100	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Benzidine	AA	mg/kg	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S		Pyrene	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S	Benzo(a)anthracene	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S	Chrysene	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S	Perylene-D12	100	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	Aldrin	AA	UG/KG	0.571
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	Alpha-BHC	AA	UG/KG	0.571
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	Beta-BHC	AA	UG/KG	0.571
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	Delta-BHC	AA	UG/KG	0.571
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	Gamma-BHC	AA	UG/KG	0.571
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	Chlordane	AA	UG/KG	0.571
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	4,4-DDD	AA	ug/kg	0.571
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	4,4-DDT	AA	ug/kg	0.571
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	4,4-DDE	AA	ug/kg	0.571
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	Dieldrin	AA	ug/kg	0.571
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	Endosulfan I	AA	ug/kg	0.571
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	Endosulfan II	AA	ug/kg	0.571
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	Endosulfan sulfate	AA	ug/kg	0.571
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	Endrin	AA	ug/kg	0.571
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	Endrin aldehyde	AA	ug/kg	0.571
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	Heptachlor	AA	ug/kg	0.571
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	Heptachlor epoxide	AA	ug/kg	0.571
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	Toxaphene	AA	ug/kg	28.2
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	PCB 1016	AA	ug/kg	14.3
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	PCB 1221	AA	ug/kg	14.3

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	PCB 1232	AA	ug/kg	14.3
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	PCB 1242	AA	ug/kg	4.3
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	PCB 1248	AA	ug/kg	14.3
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	PCB 1254	AA	ug/kg	14.3
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	PCB 1260	AA	ug/kg	14.3
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	2,4,5,6 Tetrachloro-m-xylene	40.3	ug/kg	62
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PESTS	Decachlorobiphenyl	41.1	ug/kg	58
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$ICP_WS	Arsenic_s	4.36	mg/kg	0.16
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$ICP_WS	Cadmium_s	0.14	mg/kg	0.03
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$ICP_WS	Calcium_s	43900	mg/kg	40.2
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$ICP_WS	Copper_s	12.9	mg/kg	0.56
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$ICP_WS	Iron_s	13700	mg/kg	8.04
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$ICP_WS	Lead_s	13.1	mg/kg	0.08
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$ICP_WS	Magnesium_s	6520	mg/kg	16.1
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$ICP_WS	Zinc_s	52.6	mg/kg	1.61
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Fluoranthene	1.700	ug/kg-dry	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Surr: 2,4,6-Tribromophenol	27	%	10
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Surr: 2-Fluorobiphenyl	53	%	25
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Surr: 2-Fluorophenol	30	%	10
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Surr: 4-Terphenyl-d14	71	%	21
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Surr: Nitrobenzene-d5	41	%	21
AC08925	LM51	Little Miami Watershed	51	10/22/2012	17:30	\$PAH_WS	Surr: Phenol-d6	20	%	17
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S	Bromochloromethane	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S	Chloromethane	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S	Vinyl Chloride	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S	Bromomethane	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S	Chloroethane	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S	Trichlorofluoromethane	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S	Acrolein	0	mg/kg	170
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S	1,1-Dichloroethene	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S	Acrylonitrile	0	mg/kg	170
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S	Methylene Chloride	0	mg/kg	34.0
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S	1,1-Dichloroethane	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S	Chloroform	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S	1,2-Dichloroethane	0	mg/kg	8.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		1,2-Dichloroethane-d4	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		1,1,1-Trichloroethane	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		Carbon Tetrachloride	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		Benzene	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		Trichloroethene	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		2-Chloroethylvinylether	0	mg/kg	85
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		1,2-Dichloropropane	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		Bromodichloromethane	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		cis-1,3-Dichloropropene	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		trans-1,3-Dichloropropene	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		1,1,2-Trichloroethane	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		Dibromochloromethane	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		Bromoform	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		1,4-Dichlorobutane	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		Tetrachloroethene	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		1,1,2,2-Tetrachloroethane	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		Toluene	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		Toluene-d8	85	mg/kg	76
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		Chlorobenzene	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		Ethylbenzene	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		Bromofluorobenzene	102	mg/kg	67
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		1,3-Dichlorobenzene	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		1,4-Dichlorobenzene	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		1,2-Dichlorobenzene	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		2-Propanone	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		2-Butanone	0	mg/kg	8.5
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$624S		Dibromofluoromethane (S)	104	mg/kg	71
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		1,4-Dichlorobenzene-D4	0	mg/kg	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		pyridine	AA	mg/kg	2660
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		n-nitrosodimethylamine	AA	mg/kg	944
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		2-Fluorophenol	34	mg/kg	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		aniline	AA	mg/kg	1690
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Phenol-d6	27	mg/kg	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Phenol	AA	mg/kg	1010
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	1070
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		2-Chlorophenol	AA	mg/kg	838
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		n-decane	0	mg/kg	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Bis(2-chloroisopropyl)ether	0	mg/kg	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		o-cresol	AA	mg/kg	853
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		acetophenone	AA	mg/kg	790
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	1130
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Hexachloroethane	AA	mg/kg	832
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Naphthalene-D8	0	mg/kg	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Nitrobenzene-d5	42	mg/kg	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		p-cresol	AA	mg/kg	858
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Nitrobenzene	AA	mg/kg	849
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Isophorone	AA	mg/kg	812
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Decafluorobiphenyl	0	mg/kg	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		2-Nitrophenol	AA	mg/kg	979
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		2,4-Dimethylphenol	AA	mg/kg	871
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	885
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		2,4-Dichlorophenol	AA	mg/kg	892
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	988
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Naphthalene	AA	mg/kg	994
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		1-Fluoronaphthalene	0	mg/kg	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		alpha terpineol	AA	mg/kg	1300
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Hexachlorobutadiene	AA	mg/kg	1000
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	906
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Acenaphthene-d10	0	mg/kg	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	1390
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		2,3 dichloroaniline	0	mg/kg	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	856
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		2-Chloronaphthalene	AA	mg/kg	784
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Dimethyl phthalate	AA	mg/kg	880
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Acenaphthylene	AA	mg/kg	938
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		2,6-Dinitrotoluene	AA	mg/kg	994

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Acenaphthene	AA	mg/kg	974
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		2,4-Dinitrophenol	AA	mg/kg	3150
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		4-Nitrophenol	AA	mg/kg	1860
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		2,4-Dinitrotoluene	AA	mg/kg	1310
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Diethyl phthalate	AA	mg/kg	1080
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	1030
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Fluorene	AA	mg/kg	1080
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Phenanthrene-D10	0	mg/kg	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		4,6-Dinitro-o-cresol	0	mg/kg	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		n-nitrosodiphenylamine	AA	mg/kg	309
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		1,2-Diphenylhydrazine	0	mg/kg	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		2,4,6-Tribromophenol	37	mg/kg	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	1140
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Hexachlorobenzene	AA	mg/kg	914
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Pentachlorophenol	AA	mg/kg	1070
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		n-octadecane	0	mg/kg	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Phenanthrene	AA	mg/kg	897
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Anthracene	AA	mg/kg	967
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		carbazole	AA	mg/kg	1230
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Di-n-butyl phthalate	AA	mg/kg	1020
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Fluoranthene	AA	mg/kg	1070
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Chrysene-d12	0	mg/kg	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Benzidine	AA	mg/kg	1440
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Pyrene	AA	mg/kg	1480
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Butyl benzyl phthalate	AA	mg/kg	1260
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		3,3-Dichlorobenzidine	AA	mg/kg	1630
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Benzo(a)anthracene	AA	mg/kg	994
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Chrysene	AA	mg/kg	1020
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		bis(2-ethylhexyl)phthalate	0	mg/kg	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Di-n-octyl phthalate	AA	mg/kg	1290
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Perylene-D12	0	mg/kg	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Benzo(b)fluoranthene	AA	mg/kg	1330
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S		Benzo(k)fluoranthene	AA	mg/kg	1720

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S	Benzo(a)pyrene	AA	mg/kg	1530
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	1160
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	1200
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$625S	Benzo(ghi)perylene	AA	mg/kg	2160
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	Aldrin	AA	ug/kg	0.571
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	Alpha-BHC	AA	ug/kg	0.571
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	Beta-BHC	AA	ug/kg	0.571
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	Delta-BHC	AA	ug/kg	0.571
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	Gamma-BHC	AA	ug/kg	0.571
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	Chlordane	AA	ug/kg	14.3
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	4,4-DDD	AA	ug/kg	0.571
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	4,4-DDT	AA	ug/kg	0.571
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	4,4-DDE	AA	ug/kg	0.571
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	Dieldrin	AA	ug/kg	0.571
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	Endosulfan I	AA	ug/kg	0.571
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	Endosulfan II	AA	ug/kg	0.571
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	Endosulfan sulfate	AA	ug/kg	0.571
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	Endrin	AA	ug/kg	0.571
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	Endrin aldehyde	AA	ug/kg	0.571
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	Heptachlor	AA	ug/kg	0.571
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	Heptachlor epoxide	AA	ug/kg	0.571
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	Toxaphene	AA	ug/kg	28.6
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	PCB 1016	AA	ug/kg	14.3
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	PCB 1221	AA	ug/kg	14.3
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	PCB 1232	AA	ug/kg	14.3
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	PCB 1242	AA	ug/kg	14.3
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	PCB 1248	AA	ug/kg	14.3
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	PCB 1254	AA	ug/kg	14.3
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	PCB 1260	AA	ug/kg	14.3
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	2,4,5,6 Tetrachloro-m-xylene	38.8	ug/kg	62
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PESTS	Decachlorobiphenyl	35.9	ug/kg	58
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$ICP_WS	Arsenic_s	3.39	mg/kg	0.14
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$ICP_WS	Cadmium_s	0.09	mg/kg	0.03

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$ICP_WS	Calcium_s	57200	mg/kg	35.4
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$ICP_WS	Copper_s	7.30	mg/kg	0.500
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$ICP_WS	Iron_s	9850	mg/kg	7.08
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$ICP_WS	Lead_s	8.70	mg/kg	0.07
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$ICP_WS	Magnesium_s	9660	mg/kg	14.2
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$ICP_WS	Zinc_s	28.2	mg/kg	1.42
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Surr: 2,4,6-Tribromophenol	37	%	10
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Surr: 2-Fluorobiphenyl	62	%	25
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Surr: 2-Fluorophenol	34	%	10
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Surr: 4-Terphenyl-d14	83	%	21
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Surr: Nitrobenzene-d5	42	%	21
AC08926	LM03	Little Miami Watershed	3	10/22/2012	15:00	\$PAH_WS	Surr: Phenol-d6	27	%	17
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	Bromochloromethane	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	Chloromethane	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	Vinyl Chloride	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	Bromomethane	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	Chloroethane	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	Trichlorofluoromethane	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	Acrolein	0	mg/kg	164
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	1,1-Dichloroethene	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	Acrylonitrile	0	mg/kg	164
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	Methylene Chloride	0	mg/kg	32.8
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	1,1-Dichloroethane	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	Chloroform	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	1,2-Dichloroethane	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	1,2-Dichloroethane-d4	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	1,1,1-Trichloroethane	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	Carbon Tetrachloride	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	Benzene	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	Trichloroethene	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	2-Chloroethylvinylether	0	mg/kg	81.9
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	1,2-Dichloropropane	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	Bromodichloromethane	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S	cis-1,3-Dichloropropene	0	mg/kg	8.2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S		trans-1,3-Dichloropropene	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S		1,1,2-Trichloroethane	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S		Dibromochloromethane	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S		Bromoform	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S		1,4-Dichlorobutane	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S		Tetrachloroethene	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S		1,1,2,2-Tetrachloroethane	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S		Toluene	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S		Toluene-d8	84	mg/kg	76
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S		Chlorobenzene	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S		Ethylbenzene	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S		Bromofluorobenzene	107	mg/kg	67
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S		1,3-Dichlorobenzene	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S		1,4-Dichlorobenzene	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S		1,2-Dichlorobenzene	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S		2-Propanone	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S		2-Butanone	0	mg/kg	8.2
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$624S		Dibromofluorobenzene (S)	98	mg/kg	71
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		pyridine	AA	mg/kg	0.286
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		2-Fluorophenol	31	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		aniline	AA	mg/kg	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Phenol-d6	25	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Phenol	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		2-Chlorophenol	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		n-decane	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		o-cresol	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		acetophenone	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Hexachloroethane	AA	mg/kg	0.0857



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Naphthalene-D8	50	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Nitrobenzene-d5	41	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		p-cresol	AA	mg/kg	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Isophorone	AA	mg/kg	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Naphthalene	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Acenaphthene-d10	50	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Acenaphthene	AA	mg/kg	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Fluorene	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Code	Analysis Code	Analysis Description	Results	Units	MDL
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		1,2-Diphenylhydrazine	38	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		2,4,6-Tribromophenol	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		n-octadecane	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Phenanthrene	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Anthracene	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		carbazole	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Fluoranthene	AA	mg/kg	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Chrysene-d12	50	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Benzidine	AA	mg/kg	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Pyrene	AA	mg/kg	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Benzo(a)anthracene	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Chrysene	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Perylene-D12	50	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Benzo(b)fluoranthene	AA	mg/kg	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Benzo(a)pyrene	AA	mg/kg	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$625S		Benzo(ghi)perylene	AA	mg/kg	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS		Aldrin	AA	ug/kg	0.571
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS		Alpha-BHC	AA	ug/kg	0.571
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS		Beta-BHC	AA	ug/kg	0.571
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS		Delta-BHC	AA	ug/kg	0.571
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS		Gamma-BHC	AA	ug/kg	0.571

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS	Chlordane	AA	ug/kg	14.3
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS	4,4-DDD	AA	ug/kg	0.571
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS	4,4-DDT	AA	ug/kg	0.571
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS	4,4-DDE	AA	ug/kg	0.571
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS	Dieldrin	AA	ug/kg	0.571
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS	Endosulfan I	AA	ug/kg	0.571
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS	Endosulfan II	AA	ug/kg	0.571
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS	Endosulfan sulfate	AA	ug/kg	0.571
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS	Endrin	AA	ug/kg	0.571
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS	Endrin aldehyde	AA	ug/kg	0.571
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS	Heptachlor	AA	ug/kg	0.571
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS	Heptachlor epoxide	AA	ug/kg	0.571
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS	Toxaphene	AA	ug/kg	28.6
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS	PCB 1016	AA	ug/kg	14.3
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS	PCB 1221	AA	ug/kg	14.3
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS	PCB 1232	AA	ug/kg	14.3
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS	PCB 1242	AA	ug/kg	14.3
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS	PCB 1248	AA	ug/kg	14.3
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS	PCB 1254	AA	ug/kg	14.3
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS	PCB 1260	AA	ug/kg	14.3
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS	2,4,5,6-Tetrachloro-m-xylene	68.5	ug/kg	62
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PESTS	decachlorobiphenyl	63.0	ug/kg	58
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$ICP_WS	Arsenic_s	4.48	mg/kg	0.24
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$ICP_WS	Cadmium_s	0.12	mg/kg	0.05
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$ICP_WS	Calcium_s	26900	mg/kg	60.3
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$ICP_WS	Copper_s	20.2	mg/kg	0.84
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$ICP_WS	Iron_s	18200	mg/kg	12.1
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$ICP_WS	Lead_s	17.6	mg/kg	0.12
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$ICP_WS	Magnesium_s	5940	mg/kg	24.1
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$ICP_WS	Zinc_s	70.3	mg/kg	2.41
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg- dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Surr: 2,4,6-Tribromophenol	38	%	10
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Surr: 2-Fluorobiphenyl	55	%	25
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Surr: 2-Fluorophenol	31	%	10
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Surr: 4-Terphenyl-d14	78	%	21
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Surr: Nitrobenzene-d5	41	%	21
AC08927	LM38	Little Miami Watershed	38	10/22/2012	14:30	\$PAH_WS	Surr: Phenol-d6	25	%	17

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Bromochloromethane	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Chloromethane	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Vinyl Chloride	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Bromomethane	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Chloroethane	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Trichlorofluoromethane	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Acrolein	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	1,1-Dichloroethene	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Acrylonitrile	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Methylene Chloride	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	1,1-Dichloroethane	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Chloroform	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	1,2-Dichloroethane	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	1,2-Dichloroethane-d4	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	1,1,1-Trichloroethane	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Carbon Tetrachloride	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Benzene	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Trichloroethene	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	2-Chloroethylvinylether	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	1,2-Dichloropropane	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Bromodichloromethane	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	cis-1,3-Dichloropropene	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	trans-1,3-Dichloropropene	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	1,1,2-Trichloroethane	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Dibromochloromethane	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Bromoform	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	1,4-Dichlorobutane	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Tetrachloroethene	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Toluene	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Toluene-d8	89	mg/kg	76

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Chlorobenzene	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Ethylbenzene	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Bromofluorobenzene	100	mg/kg	67
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	1,3-Dichlorobenzene	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	1,4-Dichlorobenzene	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	1,2-Dichlorobenzene	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	2-Propanone	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	2-Butanone	0	mg/kg	10.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$624S	Dibromofluoromethane (S)	104	mg/kg	71
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	pyridine	AA	mg/kg	0.286
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	2-Fluorophenol	31	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	aniline	AA	mg/kg	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Phenol-d6	23	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Phenol	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	2-Chlorophenol	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	n-decane	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	o-cresol	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	acetophenone	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Hexachloroethane	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Naphthalene-D8	50	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Nitrobenzene-d5	44	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	p-cresol	AA	mg/kg	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Nitrobenzene	AA	mg/kg	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Isophorone	AA	mg/kg	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Decafluorobiphenyl	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	2-Nitrophenol	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	bis(2-Chloroethoxy)methane	AA	mg/kg	0.143



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Naphthalene	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	alpha terpineol	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Hexachlorobutadiene	AA	mg/kg	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Acenaphthene-d10	50	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	2,3 dichloroaniline	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	2-Chloronaphthalene	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Dimethyl phthalate	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Acenaphthylene	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Acenaphthene	AA	mg/kg	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	2,4-Dinitrophenol	AA	mg/kg	0.286
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	4-Nitrophenol	AA	mg/kg	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Diethyl phthalate	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Fluorene	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Phenanthrene-D10	50	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	2,4,6-Tribromophenol	32	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Hexachlorobenzene	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Pentachlorophenol	AA	mg/kg	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	n-octadecane	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Phenanthrene	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Anthracene	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	carbazole	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Fluoranthene	AA	mg/kg	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Chrysene-d12	50	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Benzidine	AA	mg/kg	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Pyrene	AA	mg/kg	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Benzo(a)anthracene	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Chrysene	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Perylene-D12	50	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	Aldrin	AA	ug/kg	0.571
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	Alpha-BHC	AA	ug/kg	0.571
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	Beta-BHC	AA	ug/kg	0.571
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	Delta-BHC	AA	ug/kg	0.571
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	Gamma-BHC	AA	ug/kg	0.571
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	Chlordane	AA	ug/kg	14.3
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	4,4-DDD	AA	ug/kg	0.571
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	4,4-DDT	AA	ug/kg	0.571
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	4,4-DDE	AA	ug/kg	0.571
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	Dieldrin	AA	ug/kg	0.571
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	Endosulfan I	AA	ug/kg	0.571
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	Endosulfan II	AA	ug/kg	0.571
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	Endosulfan sulfate	AA	ug/kg	0.571
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	Endrin	AA	ug/kg	0.571

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	Endrin aldehyde	AA	ug/kg	0.571
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	Heptachlor	AA	ug/kg	0.571
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	Heptachlor epoxide	AA	ug/kg	0.571
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	Toxaphene	AA	ug/kg	28.6
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	PCB 1016	AA	ug/kg	14.3
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	PCB 1221	AA	mg/kg	14.3
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	PCB 1232	AA	ug/kg	14.3
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	PCB 1242	AA	ug/kg	14.3
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	PCB 1248	AA	ug/kg	14.3
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	PCB 1254	AA	ug/kg	14.3
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	PCB 1260	AA	ug/kg	14.3
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	2,4,5,6-Tetrachloro-m-xylene	43.2	ug/kg	62
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PESTS	Decachlorobiphenyl	53.3	ug/kg	58
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$ICP_WS	Arsenic_s	3.17	mg/kg	0.18
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$ICP_WS	Cadmium_s	0.10	mg/kg	0.04
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$ICP_WS	Calcium_s	38100	mg/kg	44.9
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$ICP_WS	Copper_s	10.2	mg/kg	0.63
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$ICP_WS	Iron_s	10900	mg/kg	8.98
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$ICP_WS	Lead_s	10.8	mg/kg	0.09
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$ICP_WS	Magnesium_s	6820	mg/kg	18.0
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$ICP_WS	Zinc_s	42.3	mg/kg	1.80
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	0
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Surr: 2,4,6-Tribromophenol	32	%	10
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Surr: 2-Fluorobiphenyl	56	%	25
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Surr: 2-Fluorophenol	31	%	10
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Surr: 4-Terphenyl-d14	77	%	21
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Surr: Nitrobenzene-d5	44	%	21
AC08928	LM02	Little Miami Watershed	2 (3261-09)	10/22/2012	14:00	\$PAH_WS	Surr: Phenol-d6	23	%	17
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$624S	Bromochloromethane	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$624S	Chloromethane	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$624S	Vinyl Chloride	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$624S	Bromomethane	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$624S	Chloroethane	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$624S	Trichlorofluoromethane	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$624S	Acrolein	0	mg/kg	333
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$624S	1,1-Dichloroethene	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$624S	Acrylonitrile	0	mg/kg	333

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		Methylene Chloride	0	mg/kg	66.6
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		Trans-1,2-Dichloroethene	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		1,1-Dichloroethane	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		Chloroform	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		2-Bromo,1-Chloropropane	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		1,2-Dichloroethane	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		1,2-Dichloroethane-d4	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		1,1,1-Trichloroethane	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		Carbon Tetrachloride	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		Benzene	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		Trichloroethene	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		2-Chloroethylvinylether	0	mg/kg	167
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		1,2-Dichloropropane	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		Bromodichloromethane	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		cis-1,3-Dichloropropene	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		trans-1,3-Dichloropropene	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		1,1,2-Trichloroethane	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		Dibromochloromethane	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		Bromoform	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		1,4-Dichlorobutane	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		Tetrachloroethene	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		1,1,2,2-Tetrachloroethane	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		Toluene	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		Toluene-d8	86	mg/kg	76
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		Chlorobenzene	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		Ethylbenzene	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		Bromofluorobenzene	102	mg/kg	67
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		1,3-Dichlorobenzene	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		1,4-Dichlorobenzene	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		1,2-Dichlorobenzene	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		2-Propanone	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		2-Butanone	0	mg/kg	16.7
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$6245		Dibromofluoromethane (S)	104	mg/kg	71

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		pyridine	AA	mg/kg	0.286
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		2-Fluorophenol	55	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		aniline	AA	mg/kg	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Phenol-d6	41	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Phenol	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		2-Chlorophenol	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		n-decane	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		o-cresol	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		acetophenone	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Hexachloroethane	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Naphthalene-D8	50	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Nitrobenzene-d5	55	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		p-cresol	AA	mg/kg	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Isophorone	AA	mg/kg	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Naphthalene	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Acenaphthene-d10	50	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Acenaphthene	AA	mg/kg	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Fluorene	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		2,4,6-Tribromophenol	37	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		n-octadecane	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Phenanthrene	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Anthracene	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		carbazole	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Fluoranthene	AA	mg/kg	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Chrysene-d12	50	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Benzidine	AA	mg/kg	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Pyrene	AA	mg/kg	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S		Benzo(a)anthracene	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S	Chrysene	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S	Perylene-D12	50	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	Aldrin	AA	ug/kg	0.571
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	Alpha-BHC	AA	ug/kg	0.571
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	Beta-BHC	AA	ug/kg	0.571
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	Delta-BHC	AA	ug/kg	0.571
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	Gamma-BHC	AA	ug/kg	0.571
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	Chlordane	AA	ug/kg	14.3
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	4,4-DDD	AA	ug/kg	0.571
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	4,4-DDT	AA	ug/kg	0.571
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	4,4-DDE	AA	ug/kg	0.571
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	Dieldrin	AA	ug/kg	0.571
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	Endosulfan I	AA	ug/kg	0.571
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	Endosulfan II	AA	ug/kg	0.571
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	Endosulfan sulfate	AA	ug/kg	0.571
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	Endrin	AA	ug/kg	0.571
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	Endrin aldehyde	AA	ug/kg	0.571
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	Heptachlor	AA	ug/kg	0.571
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	Heptachlor epoxide	AA	ug/kg	0.571
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	Toxaphene	AA	ug/kg	28.6
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	PCB 1016	AA	ug/kg	14.3
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	PCB 1221	AA	ug/kg	14.3
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	PCB 1232	AA	ug/kg	14.3
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	PCB 1242	AA	ug/kg	14.3
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	PCB 1248	AA	ug/kg	14.3

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	PCB 1254	AA	ug/kg	14.3
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	PCB 1260	AA	ug/kg	14.3
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	2,4,5,6-Tetrachloro-m-xylene	36.8	ug/kg	62
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PESTS	Decachlorobiphenyl	44.6	ug/kg	58
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$ICP_WS	Arsenic_s	1.73	mg/kg	0.15
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$ICP_WS	Cadmium_s	0.10	mg/kg	0.03
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$ICP_WS	Calcium_s	22500	mg/kg	37.2
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$ICP_WS	Copper_s	9.44	mg/kg	0.52
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$ICP_WS	Iron_s	7470	mg/kg	7.45
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$ICP_WS	Lead_s	7.24	mg/kg	0.07
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$ICP_WS	Magnesium_s	3890	mg/kg	14.9
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$ICP_WS	Zinc_s	37.4	mg/kg	1.49
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Surr: 2,4,6-Tribromophenol	37	%	10
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Surr: 2-Fluorobiphenyl	72	%	25
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Surr: 2-Fluorophenol	55	%	10
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Surr: 4-Terphenyl-d14	86	%	21
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Surr: Nitrobenzene-d5	55	%	21
AC08929	LM01	Little Miami Watershed	1	10/22/2012	12:40	\$PAH_WS	Surr: Phenol-d6	41	%	17
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S	Bromochloromethane	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S	Chloromethane	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S	Vinyl Chloride	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S	Bromomethane	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S	Chloroethane	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S	Trichlorofluoromethane	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S	Acrolein	0	mg/kg	148
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S	1,1-Dichloroethene	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S	Acrylonitrile	0	mg/kg	148
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S	Methylene Chloride	0	mg/kg	29.7
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S	1,1-Dichloroethane	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S	Chloroform	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S	1,2-Dichloroethane	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S	1,2-Dichloroethane-d4	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S	1,1,1-Trichloroethane	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S	Carbon Tetrachloride	0	mg/kg	7.4

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		Benzene	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		Trichloroethene	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		2-Chloroethylvinylether	74.1	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		1,2-Dichloropropane	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		Bromodichloromethane	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		cis-1,3-Dichloropropene	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		trans-1,3-Dichloropropene	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		1,1,2-Trichloroethane	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		Dibromochloromethane	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		Bromoform	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		1,4-Dichlorobutane	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		Tetrachloroethene	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		1,1,2,2-Tetrachloroethane	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		Toluene	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		Toluene-d8	86	mg/kg	76
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		Chlorobenzene	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		Ethylbenzene	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		Bromofluorobenzene	102	mg/kg	67
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		1,3-Dichlorobenzene	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		1,4-Dichlorobenzene	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		1,2-Dichlorobenzene	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		2-Propanone	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		2-Butanone	0	mg/kg	7.4
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$624S		Dibromofloromethane (S)	103	mg/kg	71
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		pyridine	AA	mg/kg	0.286
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		2-Fluorophenol	51	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		aniline	AA	mg/kg	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Phenol-d6	28	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Phenol	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		2-Chlorophenol	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		n-decane	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		o-cresol	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		acetophenone	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Hexachloroethane	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Naphthalene-D8	50	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Nitrobenzene-d5	50	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		p-cresol	AA	mg/kg	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Isophorone	AA	mg/kg	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Naphthalene	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Acenaphthene-d10	50	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Acenaphthene	AA	mg/kg	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		4-Nitrophenol	AA	mg/kg	0.143



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Fluorene	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		2,4,6-Tribromophenol	33	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		n-octadecane	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Phenanthrene	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Anthracene	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		carbazole	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Fluoranthene	AA	mg/kg	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Chrysene-d12	50	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Benzidine	AA	mg/kg	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Pyrene	AA	mg/kg	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Benzo(a)anthracene	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Chrysene	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Perylene-D12	50	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Benzo(b)fluoranthene	AA	mg/kg	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Benzo(a)pyrene	AA	mg/kg	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S		Dibenzo(a,h)anthracene	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	Aldrin	0	ug/kg	0.571
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	Alpha-BHC	0	ug/kg	0.571
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	Beta-BHC	0	ug/kg	0.571
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	Delta-BHC	0	ug/kg	0.571
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	Gamma-BHC	0	ug/kg	0.571
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	Chlordane	0	ug/kg	14.3
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	4,4-DDD	0	ug/kg	0.571
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	4,4-DDT	0	ug/kg	0.571
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	4,4-DDE	0	ug/kg	0.571
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	Dieldrin	AA	ug/kg	0.571
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	Endosulfan I	AA	ug/kg	0.571
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	Endosulfan II	AA	ug/kg	0.571
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	Endosulfan sulfate	AA	ug/kg	0.571
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	Endrin	AA	ug/kg	0.571
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	Endrin aldehyde	AA	ug/kg	0.571
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	Heptachlor	AA	ug/kg	0.571
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	Heptachlor epoxide	AA	ug/kg	0.571
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	Toxaphene	AA	ug/kg	28.6
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	PCB 1016	AA	ug/kg	14.3
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	PCB 1221	AA	ug/kg	14.3
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	PCB 1232	AA	ug/kg	14.3
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	PCB 1242	AA	ug/kg	14.3
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	PCB 1248	AA	ug/kg	14.3
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	PCB 1254	AA	ug/kg	14.3
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	PCB 1260	AA	ug/kg	14.3
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	2,4,5,6-Tetrachloro-m-xylene	33.2	ug/kg	62
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PESTS	Decachlorobiphenyl	36.1	ug/kg	58
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$ICP_WS	Arsenic_s	4.66	mg/kg	0.13
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$ICP_WS	Cadmium_s	0.15	mg/kg	0.03
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$ICP_WS	Calcium_s	57000	mg/kg	31.8
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$ICP_WS	Copper_s	11.4	mg/kg	0.45
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$ICP_WS	Iron_s	11100	mg/kg	6.36

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$ICP_WS	Lead_s	16.6	mg/kg	0.06
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$ICP_WS	Magnesium_s	9590	mg/kg	12.7
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$ICP_WS	Zinc_s	41.6	mg/kg	1.27
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	0
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Surr: 2,4,6-Tribromophenol	33	%	10
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Surr: 2-Fluorobiphenyl	65	%	25
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Surr: 2-Fluorophenol	51	%	10
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Surr: 4-Terphenyl-d14	77	%	21
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Surr: Nitrobenzene-d5	50	%	21
AC08930	LM16	Little Miami Watershed	16 (3261-02)	10/22/2012	11:00	\$PAH_WS	Surr: Phenol-d6	28	%	17
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Bromochloromethane	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Chloromethane	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Vinyl Chloride	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Bromomethane	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Chloroethane	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Trichlorofluoromethane	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Acrolein	0	mg/kg	137
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	1,1-Dichloroethene	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Acrylonitrile	0	mg/kg	137
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Methylene Chloride	0	mg/kg	27.5
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	1,1-Dichloroethane	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Chloroform	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	1,2-Dichloroethane	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	1,2-Dichloroethane-d4	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	1,1,1-Trichloroethane	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Carbon Tetrachloride	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Benzene	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Trichloroethene	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	2-Chloroethylvinylether	0	mg/kg	68.7
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	1,2-Dichloropropane	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Bromodichloromethane	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	cis-1,3-Dichloropropene	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	trans-1,3-Dichloropropene	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	1,1,2-Trichloroethane	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Dibromochloromethane	0	mg/kg	6.9

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Bromoform	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	1,4-Dichlorobutane	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Tetrachloroethene	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Toluene	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Toluene-d8	101	mg/kg	76
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Chlorobenzene	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Ethylbenzene	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Bromofluorobenzene	96	mg/kg	67.0
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	1,3-Dichlorobenzene	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	1,4-Dichlorobenzene	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	1,2-Dichlorobenzene	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	2-Propanone	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	2-Butanone	0	mg/kg	6.9
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$624S	Dibromofluorobenzene	101	MG/L	71
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	pyridine	AA	mg/kg	0.286
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	2-Fluorophenol	40	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	aniline	AA	mg/kg	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Phenol-d6	36	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Phenol	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	2-Chlorophenol	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	n-decane	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	o-cresol	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	acetophenone	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Hexachloroethane	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Naphthalene-D8	50	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Nitrobenzene-d5	52	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	p-cresol	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		Isophorone	AA	mg/kg	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		Naphthalene	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		Acenaphthene-d10	50	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		Acenaphthene	1.110	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		4-Nitrophenol	AA	mg/kg	0.286
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		Diethyl phthalate	AA	mg/kg	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		Fluorene	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S		2,4,6-Tribromophenol	43	mg/kg	0.0857



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Hexachlorobenzene	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Pentachlorophenol	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	n-octadecane	AA	mg/kg	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Phenanthrene	25.900	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Anthracene	3.310	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	carbazole	4.250	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Fluoranthene	45.100	mg/kg	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Chrysene-d12	50	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Benzidine	AA	mg/kg	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Pyrene	32.300	mg/kg	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Benzo(a)anthracene	12.500	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Chrysene	15.900	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Perylene-D12	50	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Benzo(b)fluoranthene	12.400	mg/kg	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Benzo(k)fluoranthene	10.700	mg/kg	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Benzo(a)pyrene	11.400	mg/kg	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Indeno(1,2,3-cd)pyrene	7.500	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$625S	Benzo(ghi)perylene	8.500	mg/kg	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	Aldrin	AA	ug/kg	0.571
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	Alpha-BHC	AA	ug/kg	0.571
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	Beta-BHC	AA	ug/kg	0.571
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	Delta-BHC	AA	ug/kg	0.571
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	Gamma-BHC	AA	ug/kg	0.571
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	Chlordane	AA	ug/kg	14.3
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	4,4-DDD	AA	ug/kg	0.571
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	4,4-DDT	AA	ug/kg	0.571

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	4,4-DDE	AA	ug/kg	0.571
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	Dieldrin	AA	ug/kg	0.571
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	Endosulfan I	AA	ug/kg	0.571
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	Endosulfan II	AA	ug/kg	0.571
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	Endosulfan sulfate	AA	ug/kg	0.571
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	Endrin	AA	ug/kg	0.571
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	Endrin aldehyde	AA	ug/kg	0.571
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	Heptachlor	AA	ug/kg	0.571
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	Heptachlor epoxide	AA	ug/kg	0.571
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	Toxaphene	AA	ug/kg	28.6
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	PCB 1016	AA	ug/kg	14.3
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	PCB 1221	AA	ug/kg	14.3
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	PCB 1232	AA	ug/kg	14.3
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	PCB 1242	AA	ug/kg	14.3
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	PCB 1248	AA	ug/kg	14.3
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	PCB 1254	AA	UG/KG	14.3
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	PCB 1260	AA	UG/KG	14.3
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	2,4,5,6-Tetrachloro-m-xylene	28.3	ug/kg	62
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PESTS	Decachlobiphenyl	58.2	ug/kg	58
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$ICP_WS	Arsenic_s	16.2	mg/kg	0.13
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$ICP_WS	Cadmium_s	0.11	mg/kg	0.03
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$ICP_WS	Calcium_s	50800	mg/kg	33.6
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$ICP_WS	Copper_s	13.2	mg/kg	0.47
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$ICP_WS	Iron_s	31500	mg/kg	67.2
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$ICP_WS	Lead_s	44.2	mg/kg	0.07
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$ICP_WS	Magnesium_s	8610	mg/kg	13.4
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$ICP_WS	Zinc_s	93.1	mg/kg	1.34
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg- dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Acenaphthylene	1.110	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Anthracene	3.310	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Benz(a)anthracene	12.500	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Benzo(a)pyrene	11.400	ug/kg-dry	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Benzo(b)fluoranthene	12.400	ug/kg-dry	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Benzo(g,h,i)perylene	8.500	ug/kg-dry	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Benzo(k)fluoranthene	10.700	ug/kg-dry	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Carbazole	4.250	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Chrysene	15.900	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Dibenz(a,h)anthracene	3.030	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Fluoranthene	45.100	ug/kg-dry	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Fluorene	1.450	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Indeno(1,2,3-cd)pyrene	7.500	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	N-Nitrosopiperidine	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Phenanthrene	25.900	ug/kg-dry	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Pyrene	32.300	ug/kg-dry	0.143
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Surr: 2,4,6-Tribromophenol	43	%	10
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Surr: 2-Fluorobiphenyl	71	%	25
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Surr: 2-Fluorophenol	40	%	10
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Surr: 4-Terphenyl-d14	82	%	21
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Surr: Nitrobenzene-d5	52	%	21
AC08984	LM47	Little Miami Watershed	47	10/24/2012	11:30	\$PAH_WS	Surr: Phenol-d6	36	%	17
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S	Bromochloromethane	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S	Chloromethane	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S	Vinyl Chloride	0	mg/kg	7.4

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		Bromomethane	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		Chloroethane	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		Trichlorofluoromethane	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		Acrolein	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		1,1-Dichloroethene	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		Acrylonitrile	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		Methylene Chloride	0	mg/kg	29.5
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		Trans-1,2-Dichloroethene	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		1,1-Dichloroethane	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		Chloroform	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		2-Bromo,1-Chloropropane	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		1,2-Dichloroethane	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		1,2-Dichloroethane-d4	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		1,1,1-Trichloroethane	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		Carbon Tetrachloride	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		Benzene	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		Trichloroethene	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		2-Chloroethylvinylether	0	mg/kg	73.8
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		1,2-Dichloropropane	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		Bromodichloromethane	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		cis-1,3-Dichloropropene	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		trans-1,3-Dichloropropene	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		1,1,2-Trichloroethane	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		Dibromochloromethane	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		Bromoform	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		1,4-Dichlorobutane	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		Tetrachloroethene	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		1,1,2,2-Tetrachloroethane	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		Toluene	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		Toluene-d8	99	mg/kg	76
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		Chlorobenzene	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		Ethylbenzene	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		Bromofluorobenzene	95	mg/kg	67

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		1,3-Dichlorobenzene	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		1,4-Dichlorobenzene	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		1,2-Dichlorobenzene	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		2-Propanone	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		2-Butanone	0	mg/kg	7.4
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$624S		Dibromofluoromethane	102	mg/kg	71
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		1,4-Dichlorobenzene-D4	50	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		pyridine	AA	mg/kg	0.286
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		n-nitrosodimethylamine	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		2-Fluorophenol	41	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		aniline	AA	mg/kg	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Phenol-d6	39	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Phenol	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		2-Chlorophenol	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		n-decane	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		o-cresol	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		acetophenone	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Hexachloroethane	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Naphthalene-D8	50	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Nitrobenzene-d5	49	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		p-cresol	AA	mg/kg	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Isophorone	AA	mg/kg	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Decafluorobiphenyl	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		2-Nitrophenol	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Naphthalene	AA	mg/kg	0.857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		alpha terpineol	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Acenaphthene-d10	50	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		2,3 dichloroaniline	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		2-Chloronaphthalene	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Dimethyl phthalate	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Acenaphthylene	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Acenaphthene	AA	mg/kg	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Diethyl phthalate	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Fluorene	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Phenanthrene-D10	50	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		2,4,6-Tribromophenol	36	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Hexachlorobenzene	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Pentachlorophenol	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		n-octadecane	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Phenanthrene	2.810	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Anthracene	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		carbazole	2.040	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Di-n-butyl phthalate	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S		Fluoranthene	5.640	mg/kg	0.143



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S	Chrysene-d12	50	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S	Benzidine	AA	mg/kg	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S	Pyrene	4.310	mg/kg	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S	Benzo(a)anthracene	1.880	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S	Chrysene	2.560	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S	Perylene-D12	50	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S	Benzo(b)fluoranthene	2.400	mg/kg	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S	Benzo(a)pyrene	1.810	mg/kg	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S	Indeno(1,2,3-cd)pyrene	1.300	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	Aldrin	AA	ug/kg	0.571
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	Alpha-BHC	AA	ug/kg	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	Beta-BHC	AA	ug/kg	0.571
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	Delta-BHC	AA	ug/kg	0.571
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	Gamma-BHC	AA	ug/kg	0.571
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	Chlordane	AA	ug/kg	14.3
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	4,4-DDD	AA	ug/kg	0.571
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	4,4-DDT	AA	ug/kg	0.571
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	4,4-DDE	AA	ug/kg	0.571
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	Dieldrin	AA	ug/kg	0.571
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	Endosulfan I	AA	ug/kg	0.571
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	Endosulfan II	AA	ug/kg	0.571
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	Endosulfan sulfate	AA	ug/kg	0.571
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	Endrin	AA	ug/kg	0.571
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	Endrin aldehyde	AA	ug/kg	0.571
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	Heptachlor	AA	ug/kg	0.571
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	Heptachlor epoxide	AA	ug/kg	0.571

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	Toxaphene	AA	ug/kg	0.571
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	PCB 1016	AA	ug/kg	14.3
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	PCB 1221	AA	ug/kg	14.3
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	PCB 1232	AA	ug/kg	14.3
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	PCB 1242	AA	ug/kg	14.3
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	PCB 1248	AA	ug/kg	14.3
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	PCB 1254	AA	ug/kg	14.3
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	PCB 1260	AA	ug/kg	14.3
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	2,4,5,6-Tetrachloro-m-xylene	29.7	ug/kg	62
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PESTS	Decachlorobiphenyl	47.2	ug/kg	58
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$ICP_WS	Arsenic_s	15.1	mg/kg	0.15
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$ICP_WS	Cadmium_s	0.16	mg/kg	0.03
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$ICP_WS	Calcium_s	32500	mg/kg	36.9
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$ICP_WS	Copper_s	18.9	mg/kg	0.52
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$ICP_WS	Iron_s	24200	mg/kg	73.8
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$ICP_WS	Lead_s	28.7	mg/kg	0.07
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$ICP_WS	Magnesium_s	5160	mg/kg	14.8
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$ICP_WS	Zinc_s	77.2	mg/kg	1.48
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Benz(a)anthracene	1.880	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Benzo(a)pyrene	1.810	ug/kg-dry	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Benzo(b)fluoranthene	2.400	ug/kg-dry	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Carbazole	2.040	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Chrysene	2.564	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Fluoranthene	5.640	ug/kg-dry	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Indeno(1,2,3-cd)pyrene	1.300	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	N-Nitropiperidine	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Phenanthrene	2.810	ug/kg-dry	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Pyrene	4.310	ug/kg-dry	0.143
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Surr: 2,4,6-Tribromophenol	36	%	10
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Surr: 2-Fluorobiphenyl	71	%	25
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Surr: 2-Fluorophenol	41	%	10
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Surr: 4-Terphenyl-d14	78	%	21
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Surr: Nitrobenzene-d5	49	%	21
AC08985	LM48	Little Miami Watershed	48	10/24/2012	11:00	\$PAH_WS	Surr: Phenol-d6	39	%	17
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S	Bromochloromethane	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S	Chloromethane	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S	Vinyl Chloride	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S	Bromomethane	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S	Chloroethane	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S	Trichlorofluoromethane	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S	Acrolein	0	mg/kg	169
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S	1,1-Dichloroethene	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S	Acrylonitrile	0	mg/kg	169
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S	Methylene Chloride	0	mg/kg	33.7
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S	1,1-Dichloroethane	0	mg/kg	8.4

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		Chloroform	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		2-Bromo,1-Chloropropane	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		1,2-Dichloroethane	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		1,2-Dichloroethane-d4	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		1,1,1-Trichloroethane	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		Carbon Tetrachloride	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		Benzene	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		Trichloroethene	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		2-Chloroethylvinylether	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		1,2-Dichloropropane	0	mg/kg	84.3
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		Bromodichloromethane	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		cis-1,3-Dichloropropene	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		trans-1,3-Dichloropropene	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		1,1,2-Trichloroethane	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		Dibromochloromethane	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		Bromoform	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		1,4-Dichlorobutane	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		Tetrachloroethene	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		1,1,2,2-Tetrachloroethane	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		Toluene	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		Toluene-d8	100	mg/kg	76
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		Chlorobenzene	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		Ethylbenzene	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		Bromofluorobenzene	95	mg/kg	67
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		1,3-Dichlorobenzene	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		1,4-Dichlorobenzene	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		1,2-Dichlorobenzene	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		2-Propanone	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		2-Butanone	0	mg/kg	8.4
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$624S		Dibromofluoromeethane	102	mg/kg	71
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		pyridine	AA	mg/kg	0.286
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		n-nitrosodimethylamine	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		2-Fluorophenol	42	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		aniline	AA	mg/kg	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Phenol-d6	40	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Phenol	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		2-Chlorophenol	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		n-decane	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		o-cresol	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		acetophenone	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Hexachloroethane	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Naphthalene-D8	50	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Nitrobenzene-d5	52	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		p-cresol	AA	mg/kg	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Isophorone	AA	mg/kg	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Naphthalene	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Acenaphthene-d10	50	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Acenaphthene	AA	mg/kg	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Fluorene	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		2,4,6-Tribromophenol	43	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		n-octadecane	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Phenanthrene	2.950	mg/kg	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Anthracene	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		carbazole	2.030	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Fluoranthene	4.470	mg/kg	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Chrysene-d12	50	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Benzidine	AA	mg/kg	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Pyrene	3.320	mg/kg	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Benzo(a)anthracene	1.400	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Chrysene	1.750	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Di-n-octyl phthalate	AA	mg/kg	0.0857



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Perylene-D12	50	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Benzo(b)fluoranthene	AA	mg/kg	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Benzo(a)pyrene	AA	mg/kg	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$625S		Benzo(ghi)perylene	AA	mg/kg	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		Aldrin	0	ug/kg	0.571
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		Alpha-BHC	0	ug/kg	0.571
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		Beta-BHC	0	ug/kg	0.571
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		Delta-BHC	0	ug/kg	0.571
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		Gamma-BHC	0	ug/kg	0.571
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		Chlordane	0	ug/kg	14.3
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		4,4-DDD	0	ug/kg	0.571
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		4,4-DDT	0	ug/kg	0.571
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		4,4-DDE	0	ug/kg	0.571
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		Dieldrin	0	ug/kg	0.571
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		Endosulfan I	0	ug/kg	0.571
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		Endosulfan II	0	ug/kg	0.571
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		Endosulfan sulfate	0	ug/kg	0.571
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		Endrin	0	ug/kg	0.571
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		Endrin aldehyde	0	ug/kg	0.571
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		Heptachlor	0	ug/kg	0.571
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		Heptachlor epoxide	0	ug/kg	0.57
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		Toxaphene	0	ug/kg	0.571
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		PCB 1016	0	ug/kg	0.571
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		PCB 1221	0	ug/kg	0.571
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		PCB 1232	0	ug/kg	0.571
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		PCB 1242	0	ug/kg	0.571
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		PCB 1248	0	ug/kg	0.571
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		PCB 1254	0	ug/kg	0.571
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		PCB 1260	0	ug/kg	0.571
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS		2,4,5,6-Tetrachlorobiphenyl	43.8	ug/kg	62

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PESTS	Decachlorobiphenyl	42.4	ug/kg	58
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$ICP_WS	Arsenic_s	8.10	mg/kg	0.17
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$ICP_WS	Cadmium_s	0.07	mg/kg	0.03
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$ICP_WS	Calcium_s	50700	mg/kg	41.6
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$ICP_WS	Copper_s	18.5	mg/kg	0.58
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$ICP_WS	Iron_s	30600	mg/kg	83.1
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$ICP_WS	Lead_s	26.5	mg/kg	0.08
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$ICP_WS	Magnesium_s	6540	mg/kg	16.6
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$ICP_WS	Zinc_s	152	mg/kg	1.66
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	2-Picoline	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Benz(a)anthracene	1.400	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Carbazole	2.030	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Chrysene	1.750	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Fluoranthene	4.470	ug/kg-dry	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Phenanthrene	2.950	ug/kg-dry	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Pyrene	3.320	ug/kg-dry	0.143
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Surr: 2,4,6-Tribromophenol	43	%	10
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Surr: 2-Fluorobiphenyl	72	%	25
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Surr: 2-Fluorophenol	42	%	10
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Surr: 4-Terphenyl-d14	80	%	21
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Surr: Nitrobenzene-d5	52	%	21
AC08986	LM49	Little Miami Watershed	49	10/24/2012	10:15	\$PAH_WS	Surr: Phenol-d6	40	%	17
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Bromochloromethane	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Chloromethane	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Vinyl Chloride	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Bromomethane	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Chloroethane	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Trichlorofluoromethane	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Acrolein	0	mg/kg	288
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	1,1-Dichloroethene	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Acrylonitrile	0	mg/kg	288
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Methylene Chloride	0	mg/kg	57.6
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	1,1-Dichloroethane	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Chloroform	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	1,2-Dichloroethane	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	1,2-Dichloroethane-d4	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	1,1,1-Trichloroethane	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Carbon Tetrachloride	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Benzene	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Trichloroethene	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	2-Chloroethylvinylether	0	mg/kg	144

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	1,2-Dichloropropane	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Bromodichloromethane	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	cis-1,3-Dichloropropene	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	trans-1,3-Dichloropropene	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	1,1,2-Trichloroethane	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Dibromochloromethane	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Bromoform	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	1,4-Dichlorobutane	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Tetrachloroethene	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Toluene	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Toluene-d8	103	mg/kg	76
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Chlorobenzene	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Ethylbenzene	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Bromofluorobenzene	96	mg/kg	67
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	1,3-Dichlorobenzene	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	1,4-Dichlorobenzene	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	1,2-Dichlorobenzene	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	2-Propanone	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	2-Butanone	0	mg/kg	14.4
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$624S	Dibromofluoromethane	103	mg/kg	71
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	pyridine	AA	mg/kg	0.286
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	2-Fluorophenol	35	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	aniline	AA	mg/kg	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Phenol-d6	38	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Phenol	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	2-Chlorophenol	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	n-decane	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	o-cresol	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	acetophenone	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Hexachloroethane	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Naphthalene-D8	50	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Nitrobenzene-d5	44	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	p-cresol	AA	mg/kg	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Nitrobenzene	AA	mg/kg	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Isophorone	AA	mg/kg	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Decafluorobiphenyl	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	2-Nitrophenol	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Naphthalene	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	alpha terpineol	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Hexachlorobutadiene	AA	mg/kg	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Acenaphthene-d10	50	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	2,3 dichloroaniline	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	2-Chloronaphthalene	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Dimethyl phthalate	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Acenaphthylene	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Acenaphthene	AA	mg/kg	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	2,4-Dinitrophenol	AA	mg/kg	0.286
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	4-Nitrophenol	AA	mg/kg	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Diethyl phthalate	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Fluorene	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Phenanthrene-D10	50	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	2,4,6-Tribromophenol	36	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Hexachlorobenzene	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Pentachlorophenol	AA	mg/kg	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	n-octadecane	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Phenanthrene	AA	mg/kg	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Anthracene	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	carbazole	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Fluoranthene	2.260	mg/kg	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Chrysene-d12	50	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Benzidine	AA	mg/kg	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Pyrene	AA	mg/kg	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Benzo(a)anthracene	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Chrysene	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Perylene-D12	50	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	Aldrin	0	ug/kg	0.571
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	Alpha-BHC	0	ug/kg	0.571



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	Beta-BHC	0	ug/kg	0.571
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	Delta-BHC	0	ug/kg	0.571
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	Gamma-BHC	0	ug/kg	0.571
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	Chlordane	0	ug/kg	0.571
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	4,4-DDD	0	ug/kg	0.571
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	4,4-DDT	0	ug/kg	0.571
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	4,4-DDE	0	ug/kg	0.571
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	Dieldrin	0	ug/kg	0.571
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	Endosulfan I	0	ug/kg	0.571
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	Endosulfan II	0	ug/kg	0.571
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	Endosulfan sulfate	0	ug/kg	0.571
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	Endrin	0	ug/kg	0.571
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	Endrin aldehyde	0	ug/kg	0.571
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	Heptachlor	0	ug/kg	0.571
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	Heptachlor epoxide	0	ug/kg	0.571
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	Toxaphene	0	ug/kg	28.6
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	PCB 1016	0	ug/kg	14.3
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	PCB 1221	0	ug/kg	14.3
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	PCB 1232	0	ug/kg	14.3
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	PCB 1242	0	ug/kg	14.3
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	PCB 1248	0	ug/kg	14.3
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	PCB 1254	0	ug/kg	14.3
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	PCB 1260	0	ug/kg	14.3
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	2,4,5,6-tetrachloro-m--xylene	57.9	ug/kg	62
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PESTS	Decachlorobiphenyl	54.3	ug/kg	58
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$ICP_WS	Arsenic_s	5.72	mg/kg	0.21
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$ICP_WS	Cadmium_s	0.16	mg/kg	0.04
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$ICP_WS	Calcium_s	37100	mg/kg	51.8
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$ICP_WS	Copper_s	32.0	mg/kg	0.73
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$ICP_WS	Iron_s	28000	mg/kg	104
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$ICP_WS	Lead_s	51.1	mg/kg	0.10
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$ICP_WS	Magnesium_s	7460	mg/kg	20.7
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$ICP_WS	Zinc_s	101	mg/kg	2.07

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Dimethylamine	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Fluoranthene	2.260	ug/kg-dry	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Surr: 2,4,6-Tribromophenol	36	%	10
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Surr: 2-Fluorobiphenyl	68	%	25
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Surr: 2-Fluorophenol	35	%	10

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Surr: 4-Terphenyl-d14	20	%	21
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Surr: Nitrobenzene-d5	44	%	21
AC08987	LM50	Little Miami Watershed	50	10/24/2012	09:45	\$PAH_WS	Surr: Phenol-d6	38	%	17
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Bromochloromethane	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Chloromethane	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Vinyl Chloride	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Bromomethane	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Chloroethane	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Trichlorofluoromethane	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Acrolein	0	mg/kg	142
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	1,1-Dichloroethene	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Acrylonitrile	0	mg/kg	142
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Methylene Chloride	0	mg/kg	28.5
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	1,1-Dichloroethane	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Chloroform	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	1,2-Dichloroethane	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	1,2-Dichloroethane-d4	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	1,1,1-Trichloroethane	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Carbon Tetrachloride	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Benzene	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Trichloroethene	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	2-Chloroethylvinylether	0	mg/kg	71.2
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	1,2-Dichloropropane	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Bromodichloromethane	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	cis-1,3-Dichloropropene	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	trans-1,3-Dichloropropene	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	1,1,2-Trichloroethane	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Dibromochloromethane	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Bromoform	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	1,4-Dichlorobutane	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Tetrachloroethene	0	mg/kg	7.1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Toluene	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Toluene-d8	100	mg/kg	76
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Chlorobenzene	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Ethylbenzene	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Bromofluorobenzene	97	mg/kg	67
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	1,3-Dichlorobenzene	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	1,4-Dichlorobenzene	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	1,2-Dichlorobenzene	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	2-Propanone	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	2-Butanone	0	mg/kg	7.1
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$624S	Dibromofluoromethane	102	mg/kg	71
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	pyridine	AA	mg/kg	0.286
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	2-Fluorophenol	40	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	aniline	AA	mg/kg	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Phenol-d6	40	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Phenol	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	2-Chlorophenol	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	n-decane	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	o-cresol	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	acetophenone	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Hexachloroethane	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Naphthalene-D8	50	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Nitrobenzene-d5	44	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	p-cresol	AA	mg/kg	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Nitrobenzene	AA	mg/kg	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Isophorone	AA	mg/kg	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Decafluorobiphenyl	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	2-Nitrophenol	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Naphthalene	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	alpha terpineol	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Hexachlorobutadiene	AA	mg/kg	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Acenaphthene-d10	50	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	2,3 dichloroaniline	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	2,4,6-Trichlorophenol	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	2-Chloronaphthalene	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Dimethyl phthalate	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Acenaphthylene	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Acenaphthene	AA	mg/kg	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	2,4-Dinitrophenol	AA	mg/kg	0.286
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	4-Nitrophenol	AA	mg/kg	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Diethyl phthalate	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Fluorene	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Phenanthrene-D10	50	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	2,4,6-Tribromophenol	36	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Hexachlorobenzene	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Pentachlorophenol	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	n-octadecane	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Phenanthrene	AA	mg/kg	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Anthracene	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	carbazole	1.830	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Fluoranthene	5.590	mg/kg	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Chrysene-d12	50	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Benzidine	AA	mg/kg	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Pyrene	4.320	mg/kg	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Benzo(a)anthracene	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Chrysene	2.470	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Perylene-D12	50	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Benzo(b)fluoranthene	2.230	mg/kg	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Benzo(k)fluoranthene	2.490	mg/kg	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Benzo(a)pyrene	2.300	mg/kg	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Indeno(1,2,3-cd)pyrene	1.830	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$625S	Benzo(ghi)perylene	2.350	mg/kg	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	Aldrin	0	ug/kg	0.571
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	Alpha-BHC	0	ug/kg	0.571
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	Beta-BHC	0	ug/kg	0.571
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	Delta-BHC	0	ug/kg	0.571
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	Gamma-BHC	0	ug/kg	0.571
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	Chlordane	0	ug/kg	14.3
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	4,4-DDD	0	ug/kg	0.571
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	4,4-DDT	0	ug/kg	0.571
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	4,4-DDE	0	ug/kg	0.571
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	Dieldrin	0	ug/kg	0.571
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	Endosulfan I	0	ug/kg	0.571



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	Endosulfan II	0	ug/kg	0.571
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	Endosulfan sulfate	0	ug/kg	0.571
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	Endrin	0	ug/kg	0.571
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	Endrin aldehyde	0	ug/kg	0.571
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	Heptachlor	0	ug/kg	0.571
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	Heptachlor epoxide	0	ug/kg	0.571
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	Toxaphene	0	ug/kg	0.571
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	PCB 1016	0	ug/kg	14.3
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	PCB 1221	0	ug/kg	14.3
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	PCB 1232	0	ug/kg	14.3
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	PCB 1242	0	ug/kg	14.3
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	PCB 1248	0	ug/kg	14.3
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	PCB 1254	0	ug/kg	14.3
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	PCB 1260	0	ug/kg	14.3
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	2,4,5,6-Tetrachloro-m-xylene	44.6	ug/kg	62
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PESTS	Decachlorobiphenyl	42.9	ug/kg	58
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$ICP_WS	Arsenic_s	3.93	mg/kg	0.15
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$ICP_WS	Cadmium_s	0.15	mg/kg	0.03
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$ICP_WS	Calcium_s	29500	mg/kg	37.2
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$ICP_WS	Copper_s	13.8	mg/kg	0.52
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$ICP_WS	Iron_s	11800	mg/kg	7.45
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$ICP_WS	Lead_s	13.0	mg/kg	0.07
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$ICP_WS	Magnesium_s	5720	mg/kg	14.9
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$ICP_WS	Zinc_s	61.7	mg/kg	1.49
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg- dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Benzo(a)pyrene	2.300	ug/kg-dry	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Benzo(b)fluoranthene	2.230	ug/kg-dry	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Benzo(g,h,i)perylene	2.350	ug/kg-dry	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Benzo(k)fluoranthene	2.490	ug/kg-dry	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Carbazole	1.850	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Chrysene	2.470	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Fluoranthene	5.590	ug/kg-dry	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Indeno(1,2,3-cd)pyrene	1.830	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Pyrene	4.320	ug/kg-dry	0.143
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Surr: 2,4,6-Tribromophenol	36	%	10
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Surr: 2-Fluorobiphenyl	75	%	25
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Surr: 2-Fluorophenol	40	%	10
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Surr: 4-Terphenyl-d14	33	%	21
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Surr: Nitrobenzene-d5	44	%	21
AC08988	LM46	Little Miami Watershed	46	10/24/2012	08:45	\$PAH_WS	Surr: Phenol-d6	40	%	17
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$624S	Bromochloromethane	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$624S	Chloromethane	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$624S	Vinyl Chloride	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$624S	Bromomethane	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$624S	Chloroethane	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$624S	Trichlorofluoromethane	0	mg/kg	9.4

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		Acrolein	0	mg/kg	189
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		1,1-Dichloroethene	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		Acrylonitrile	0	mg/kg	189
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		Methylene Chloride	0	mg/kg	37.7
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		Trans-1,2-Dichloroethene	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		1,1-Dichloroethane	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		Chloroform	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		2-Bromo,1-Chloropropane	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		1,2-Dichloroethane	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		1,2-Dichloroethane-d4	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		1,1,1-Trichloroethane	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		Carbon Tetrachloride	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		Benzene	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		Trichloroethene	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		2-Chloroethylvinylether	0	mg/kg	94.3
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		1,2-Dichloropropane	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		Bromodichloromethane	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		cis-1,3-Dichloropropene	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		trans-1,3-Dichloropropene	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		1,1,2-Trichloroethane	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		Dibromochloromethane	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		Bromoform	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		1,4-Dichlorobutane	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		Tetrachloroethene	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		1,1,2,2-Tetrachloroethane	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		Toluene	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		Toluene-d8	97	mg/kg	76
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		Chlorobenzene	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		Ethylbenzene	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		Bromofluorobenzene	97	mg/kg	67
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		1,3-Dichlorobenzene	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		1,4-Dichlorobenzene	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$6245		1,2-Dichlorobenzene	0	mg/kg	9.4

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$624S	2-Propanone	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$624S	2-Butanone	0	mg/kg	9.4
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$624S	Dibromofluoromethane	96	mg/kg	71
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	pyridine	AA	mg/kg	0.286
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	2-Fluorophenol	38	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	aniline	AA	mg/kg	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	Phenol-d6	35	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	Phenol	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	2-Chlorophenol	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	n-decane	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	o-cresol	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	acetophenone	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	Hexachloroethane	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	Naphthalene-D8	50	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	Nitrobenzene-d5	40	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	p-cresol	AA	mg/kg	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	Nitrobenzene	AA	mg/kg	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	Isophorone	AA	mg/kg	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	Decafluorobiphenyl	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	2-Nitrophenol	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	Naphthalene	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	alpha terpineol	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	Hexachlorobutadiene	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		Acenaphthene-d10	50	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		Acenaphthene	AA	mg/kg	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		Fluorene	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		2,4,6-Tribromophenol	26	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		n-octadecane	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		Phenanthrene	AA	mg/kg	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		Anthracene	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		carbazole	1.690	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		Fluoranthene	3.660	mg/kg	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		Chrysene-d12	50	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		Benzidine	AA	mg/kg	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S		Pyrene	2.800	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	Benzo(a)anthracene	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	Chrysene	1.090	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	Perylene-D12	50	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	Benzo(b)fluoranthene	1.800	mg/kg	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	Benzo(a)pyrene	1.550	mg/kg	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	Indeno(1,2,3-cd)pyrene	1.240	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	Aldrin	0	ug/kg	0.571
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	Alpha-BHC	0	ug/kg	0.571
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	Beta-BHC	0	ug/kg	0.571
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	Delta-BHC	0	ug/kg	0.571
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	Gamma-BHC	0	ug/kg	0.571
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	Chlordane	0	ug/kg	14.3
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	4,4-DDD	0	ug/kg	0.571
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	4,4-DDT	0	ug/kg	0.571
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	4,4-DDE	0	ug/kg	0.571
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	Dieldrin	0	ug/kg	0.571
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	Endosulfan I	0	ug/kg	0.571
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	Endosulfan II	0	ug/kg	0.571
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	Endosulfan sulfate	0	ug/kg	0.571
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	Endrin	0	ug/kg	0.571
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	Endrin aldehyde	0	ug/kg	0.571
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	Heptachlor	0	ug/kg	0.571
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	Heptachlor epoxide	0	ug/kg	0.571
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	Toxaphene	0	ug/kg	28.6
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	PCB 1016	0	ug/kg	14.3
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	PCB 1221	0	ug/kg	14.3



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	PCB 1232	0	ug/kg	14.3
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	PCB 1242	0	ug/kg	14.3
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	PCB 1248	0	ug/kg	14.3
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	PCB 1254	0	ug/kg	14.3
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	PCB 1260	0	ug/kg	14.3
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	2,4,5,6-terachloro-m-xylene	40.3	ug/kg	10
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PESTS	Decahlorobiphenyl	42.5	ug/kg	10
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$ICP_WS	Arsenic_s	3.91	mg/kg	0.15
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$ICP_WS	Cadmium_s	0.12	mg/kg	0.03
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$ICP_WS	Calcium_s	32200	mg/kg	38.2
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$ICP_WS	Copper_s	8.66	mg/kg	0.53
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$ICP_WS	Iron_s	11100	mg/kg	7.63
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$ICP_WS	Lead_s	14.7	mg/kg	0.08
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$ICP_WS	Magnesium_s	4910	mg/kg	15.3
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$ICP_WS	Zinc_s	42.6	mg/kg	1.53
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Benzo(a)pyrene	1.550	ug/kg-dry	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Benzo(b)fluoranthene	1.800	ug/kg-dry	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Butyl benzyl phthalate	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Carbazole	1.690	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Chrysene	1.090	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Fluoranthene	3.660	ug/kg-dry	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Indeno(1,2,3-cd)pyrene	1.240	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Pyrene	2.800	ug/kg-dry	0.143
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Surr: 2,4,6-Tribromophenol	26	%	10
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Surr: 2-Fluorobiphenyl	64	%	25
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Surr: 2-Fluorophenol	38	%	10
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Surr: 4-Terphenyl-d14	14	%	21
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Surr: Nitrobenzene-d5	40	%	21
AC08989	LM39	Little Miami Watershed	39	10/24/2012	08:15	\$PAH_WS	Surr: Phenol-d6	35	%	17
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Bromochloromethane	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Chloromethane	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Vinyl Chloride	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Bromomethane	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Chloroethane	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Trichlorofluoromethane	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Acrolein	0	mg/kg	267
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	1,1-Dichloroethene	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Acrylonitrile	0	mg/kg	267
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Methylene Chloride	0	mg/kg	53.5
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	1,1-Dichloroethane	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Chloroform	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	1,2-Dichloroethane	0	mg/kg	13.4

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	1,2-Dichloroethane-d4	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	1,1,1-Trichloroethane	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Carbon Tetrachloride	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Benzene	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Trichloroethene	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	2-Chloroethylvinylether	0	mg/kg	134
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	1,2-Dichloropropane	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Bromodichloromethane	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	cis-1,3-Dichloropropene	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	trans-1,3-Dichloropropene	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	1,1,2-Trichloroethane	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Dibromochloromethane	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Bromoform	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	1,4-Dichlorobutane	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Tetrachloroethene	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Toluene	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Toluene-d8	100	mg/kg	76
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Chlorobenzene	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Ethylbenzene	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Bromofluorobenzene	97	mg/kg	67
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	1,3-Dichlorobenzene	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	1,4-Dichlorobenzene	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	1,2-Dichlorobenzene	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	2-Propanone	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	2-Butanone	0	mg/kg	13.4
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$624S	Dibromofluoromethane	98	mg/kg	71
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S	1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S	pyridine	AA	mg/kg	0.286
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S	2-Fluorophenol	49	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S	aniline	AA	mg/kg	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S	Phenol-d6	46	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Phenol	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		2-Chlorophenol	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		n-decane	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		o-cresol	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		acetophenone	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Hexachloroethane	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Naphthalene-D8	50	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Nitrobenzene-d5	53	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		p-cresol	AA	mg/kg	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Isophorone	AA	mg/kg	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Naphthalene	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Acenaphthene-d10	50	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Acenaphthene	AA	mg/kg	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Fluorene	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		2,4,6-Tribromophenol	28	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		n-octadecane	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Phenanthrene	AA	mg/kg	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Anthracene	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		carbazole	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Fluoranthene	AA	mg/kg	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Chrysene-d12	50	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Benzidine	AA	mg/kg	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Pyrene	AA	mg/kg	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Benzo(a)anthracene	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Chrysene	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Perylene-D12	50	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Benzo(b)fluoranthene	AA	mg/kg	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S		Benzo(k)fluoranthene	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	Aldrin	0	ug/kg	0.571
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	Alpha-BHC	0	ug/kg	0.571
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	Beta-BHC	0	ug/kg	0.571
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	Delta-BHC	0	ug/kg	0.571
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	Gamma-BHC	0	ug/kg	0.571
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	Chlordane	0	ug/kg	14.3
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	4,4-DDD	0	ug/kg	0.571
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	4,4-DDT	0	ug/kg	0.571
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	4,4-DDE	0	ug/kg	0.571
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	Dieldrin	0	ug/kg	0.571
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	Endosulfan I	0	ug/kg	0.571
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	Endosulfan II	0	ug/kg	0.571
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	Endosulfan sulfate	0	ug/kg	0.571
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	Endrin	0	ug/kg	0.571
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	Endrin aldehyde	0	ug/kg	0.571
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	Heptachlor	0	ug/kg	0.571
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	Heptachlor epoxide	0	ug/kg	0.571
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	Toxaphene	0	ug/kg	28.6
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	PCB 1016	0	ug/kg	14.3
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	PCB 1221	0	ug/kg	14.3
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	PCB 1232	0	ug/kg	14.3
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	PCB 1242	0	ug/kg	14.3
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	PCB 1248	0	ug/kg	14.3
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	PCB 1254	0	ug/kg	14.3
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	PCB 1260	0	ug/kg	14.3
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	2,4,5,6-tetrachloro-m-xylene	54.8	ug/kg	62
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PESTS	Decachlorobiphenyl	48.8	ug/kg	58
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$ICP_WS	Arsenic_s	5.27	mg/kg	0.22
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$ICP_WS	Cadmium_s	0.20	mg/kg	0.04



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$ICP_WS	Calcium_s	34300	mg/kg	54.1
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$ICP_WS	Copper_s	19.9	mg/kg	0.76
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$ICP_WS	Iron_s	19800	mg/kg	10.8
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$ICP_WS	Lead_s	18.0	mg/kg	0.11
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$ICP_WS	Magnesium_s	9470	mg/kg	21.6
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$ICP_WS	Zinc_s	77.8	mg/kg	2.16
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Surr: 2,4,6-Tribromophenol	28	%	10
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Surr: 2-Fluorobiphenyl	80	%	25
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Surr: 2-Fluorophenol	49	%	10
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Surr: 4-Terphenyl-d14	26	%	21
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Surr: Nitrobenzene-d5	53	%	21
AC08990	LM15	Little Miami Watershed	15	10/23/2012	19:00	\$PAH_WS	Surr: Phenol-d6	46	%	17
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	Bromochloromethane	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	Chloromethane	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	Vinyl Chloride	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	Bromomethane	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	Chloroethane	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	Trichlorofluoromethane	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	Acrolein	0	mg/kg	218
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	1,1-Dichloroethene	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	Acrylonitrile	0	mg/kg	218
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	Methylene Chloride	0	mg/kg	43.7
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	1,1-Dichloroethane	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	Chloroform	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	1,2-Dichloroethane	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	1,2-Dichloroethane-d4	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	1,1,1-Trichloroethane	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	Carbon Tetrachloride	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	Benzene	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	Trichloroethene	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	2-Chloroethylvinylether	0	mg/kg	109
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	1,2-Dichloropropane	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	Bromodichloromethane	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S	cis-1,3-Dichloropropene	0	mg/kg	10.9

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S		trans-1,3-Dichloropropene	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S		1,1,2-Trichloroethane	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S		Dibromochloromethane	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S		Bromoform	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S		1,4-Dichlorobutane	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S		Tetrachloroethene	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S		1,1,2,2-Tetrachloroethane	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S		Toluene	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S		Toluene-d8	100	mg/kg	76
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S		Chlorobenzene	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S		Ethylbenzene	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S		Bromofluorobenzene	96	mg/kg	67
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S		1,3-Dichlorobenzene	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S		1,4-Dichlorobenzene	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S		1,2-Dichlorobenzene	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S		2-Propanone	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S		2-Butanone	0	mg/kg	10.9
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$624S		Dibromofluoromethane	98	mg/kg	71
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		pyridine	AA	mg/kg	0.286
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		2-Fluorophenol	36	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		aniline	AA	mg/kg	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		Phenol-d6	38	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		Phenol	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		2-Chlorophenol	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		n-decane	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		o-cresol	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		acetophenone	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		Hexachloroethane	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		Naphthalene-D8	50	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		Nitrobenzene-d5	44	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		p-cresol	AA	mg/kg	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		Isophorone	AA	mg/kg	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		Naphthalene	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		Acenaphthene-d10	50	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		Acenaphthene	AA	mg/kg	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		Fluorene	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	2,4,6-Tribromophenol	36	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	Hexachlorobenzene	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	Pentachlorophenol	AA	mg/kg	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	n-octadecane	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	Phenanthrene	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	Anthracene	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	carbazole	1.390	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	Fluoranthene	2.690	mg/kg	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	Chrysene-d12	50	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	Benzidine	AA	mg/kg	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	Pyrene	2.020	mg/kg	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	Benzo(a)anthracene	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	Chrysene	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	Perylene-D12	50	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	Benzo(b)fluoranthene	1.120	mg/kg	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	Aldrin	0	ug/kg	0.571
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	Alpha-BHC	0	ug/kg	0.571
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	Beta-BHC	0	ug/kg	0.571
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	Delta-BHC	0	ug/kg	0.571
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	Gamma-BHC	0	ug/kg	0.571

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	Chlordane	0	ug/kg	14.3
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	4,4-DDD	0	ug/kg	0.571
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	4,4-DDT	0	ug/kg	0.571
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	4,4-DDE	0	ug/kg	0.571
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	Dieldrin	0	ug/kg	0.571
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	Endosulfan I	0	ug/kg	0.571
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	Endosulfan II	0	ug/kg	0.571
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	Endosulfan sulfate	0	ug/kg	0.571
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	Endrin	0	ug/kg	0.571
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	Endrin aldehyde	0	ug/kg	0.571
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	Heptachlor	0	ug/kg	0.571
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	Heptachlor epoxide	0	ug/kg	0.571
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	Toxaphene	0	ug/kg	0.571
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	PCB 1016	0	ug/kg	14.3
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	PCB 1221	0	ug/kg	14.3
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	PCB 1232	0	ug/kg	14.3
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	PCB 1242	0	ug/kg	14.3
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	PCB 1248	0	ug/kg	14.3
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	PCB 1254	0	ug/kg	14.3
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	PCB 1260	0	ug/kg	14.3
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	2,4,5,6-Tetrachloro-m-xylene	31.0	ug/kg	62
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PESTS	Decachlorobiphenyl	30.0	ug/kg	58
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$ICP_WS	Arsenic_s	4.68	mg/kg	0.12
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$ICP_WS	Cadmium_s	0.43	mg/kg	0.02
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$ICP_WS	Calcium_s	11800	mg/kg	30.4
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$ICP_WS	Copper_s	28.4	mg/kg	0.43
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$ICP_WS	Iron_s	4600	mg/kg	6.08
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$ICP_WS	Lead_s	23.9	mg/kg	0.06
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$ICP_WS	Magnesium_s	2390	mg/kg	12.2
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$ICP_WS	Zinc_s	71.1	mg/kg	1.22
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg- dry	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Benzo(b)fluoranthene	1.120	ug/kg-dry	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Carbazole	1.390	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Fluoranthene	2.690	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Pyrene	2.020	ug/kg-dry	0.143
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Surr: 2,4,6-Tribromophenol	36	%	10
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Surr: 2-Fluorobiphenyl	68	%	25
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Surr: 2-Fluorophenol	36	%	10
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Surr: 4-Terphenyl-d14	14	%	21
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Surr: Nitrobenzene-d5	44	%	21
AC08991	LM76	Little Miami Watershed	76	10/23/2012	18:15	\$PAH_WS	Surr: Phenol-d6	38	%	17

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	Bromochloromethane	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	Chloromethane	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	Vinyl Chloride	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	Bromomethane	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	Chloroethane	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	Trichlorofluoromethane	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	Acrolein	0	mg/kg	290
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	1,1-Dichloroethene	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	Acrylonitrile	0	mg/kg	290
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	Methylene Chloride	0	mg/kg	57.9
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	1,1-Dichloroethane	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	Chloroform	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	1,2-Dichloroethane	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	1,2-Dichloroethane-d4	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	1,1,1-Trichloroethane	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	Carbon Tetrachloride	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	Benzene	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	Trichloroethene	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	2-Chloroethylvinylether	0	mg/kg	145
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	1,2-Dichloropropane	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	Bromodichloromethane	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	cis-1,3-Dichloropropene	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	trans-1,3-Dichloropropene	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	1,1,2-Trichloroethane	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	Dibromochloromethane	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	Bromoform	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	1,4-Dichlorobutane	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	Tetrachloroethene	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	Toluene	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S	Toluene-d8	103	mg/kg	76

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S		Chlorobenzene	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S		Ethylbenzene	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S		Bromofluorobenzene	95	mg/kg	67
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S		1,3-Dichlorobenzene	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S		1,4-Dichlorobenzene	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S		1,2-Dichlorobenzene	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S		2-Propanone	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S		2-Butanone	0	mg/kg	14.5
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$624S		Dibromofluoromethane	96	mg/kg	71
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		pyridine	AA	mg/kg	0.286
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		2-Fluorophenol	30	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		aniline	AA	mg/kg	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Phenol-d6	47	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Phenol	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		2-Chlorophenol	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		n-decane	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		o-cresol	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		acetophenone	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Hexachloroethane	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Naphthalene-D8	50	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Nitrobenzene-d5	44	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		p-cresol	2.720	mg/kg	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Isophorone	AA	mg/kg	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Naphthalene	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Acenaphthene-d10	50	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Acenaphthene	AA	mg/kg	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.268
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Fluorene	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		2,4,6-Tribromophenol	52	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		n-octadecane	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Phenanthrene	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S		Anthracene	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S	carbazole	2.730	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S	Fluoranthene	6.400	mg/kg	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S	Chrysene-d12	50	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S	Benzidine	AA	mg/kg	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S	Pyrene	5.050	mg/kg	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S	Benzo(a)anthracene	2.040	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S	Chrysene	3.050	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S	Perylene-D12	50	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S	Benzo(b)fluoranthene	3.010	mg/kg	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S	Benzo(a)pyrene	2.150	mg/kg	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S	Indeno(1,2,3-cd)pyrene	1.630	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	Aldrin	0	ug/kg	0.571
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	Alpha-BHC	0	ug/kg	0.571
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	Beta-BHC	0	ug/kg	0.571
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	Delta-BHC	0	ug/kg	0.571
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	Gamma-BHC	0	ug/kg	0.571
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	Chlordane	0	ug/kg	14.3
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	4,4-DDD	0	ug/kg	0.571
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	4,4-DDT	0	ug/kg	0.571
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	4,4-DDE	0	ug/kg	0.571
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	Dieldrin	0	ug/kg	0.571
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	Endosulfan I	0	ug/kg	0.571
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	Endosulfan II	0	ug/kg	0.571
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	Endosulfan sulfate	0	ug/kg	0.571
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	Endrin	0	ug/kg	0.571

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	Endrin aldehyde	0	ug/kg	0.571
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	Heptachlor	0	ug/kg	0.571
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	Heptachlor epoxide	0	ug/kg	0.571
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	Toxaphene	0	ug/kg	28.6
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	PCB 1016	0	ug/kg	14.3
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	PCB 1221	0	ug/kg	14.3
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	PCB 1232	0	ug/kg	14.3
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	PCB 1242	0	ug/kg	14.3
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	PCB 1248	0	ug/kg	14.3
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	PCB 1254	0	ug/kg	14.3
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	PCB 1260	0	ug/kg	14.3
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	2,4,5,6-tetrachloro-m-xylene	57.7	ug/kg	62
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PESTS	Decachlorobiphenyl	71.6	ug/kg	58
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$ICP_WS	Arsenic_s	11.7	mg/kg	0.22
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$ICP_WS	Cadmium_s	0.42	mg/kg	0.04
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$ICP_WS	Calcium_s	69800	mg/kg	54.0
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$ICP_WS	Copper_s	103	mg/kg	0.76
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$ICP_WS	Iron_s	16900	mg/kg	10.8
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$ICP_WS	Lead_s	106	mg/kg	0.11
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$ICP_WS	Magnesium_s	9770	mg/kg	21.6
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$ICP_WS	Zinc_s	141	mg/kg	2.16
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	3&4-Methylphenol	2.720	ug/kg-dry	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Benz(a)anthracene	2.040	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Benzo(a)pyrene	2.150	ug/kg-dry	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Benzo(b)fluoranthene	3.010	ug/kg-dry	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Carbazole	2.730	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Chrysene	3.050	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Fluoranthene	6.400	ug/kg-dry	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Indeno(1,2,3-cd)pyrene	1.630	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Phenanthrene	2.650	ug/kg-dry	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Pyrene	5.050	ug/kg-dry	0.143
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Surr: 2,4,6-Tribromophenol	52	%	10
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Surr: 2-Fluorobiphenyl	67	%	25
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Surr: 2-Fluorophenol	30	%	10
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Surr: 4-Terphenyl-d14	79	%	21
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Surr: Nitrobenzene-d5	44	%	21
AC08992	LM75	Little Miami Watershed	75	10/23/2012	17:30	\$PAH_WS	Surr: Phenol-d6	47	%	17
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$624S	Bromochloromethane	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$624S	Chloromethane	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$624S	Vinyl Chloride	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$624S	Bromomethane	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$624S	Chloroethane	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$624S	Trichlorofluoromethane	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$624S	Acrolein	0	mg/kg	129
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$624S	1,1-Dichloroethene	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$624S	Acrylonitrile	0	mg/kg	129

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		Methylene Chloride	0	mg/kg	25.8
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		Trans-1,2-Dichloroethene	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		1,1-Dichloroethane	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		Chloroform	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		2-Bromo,1-Chloropropane	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		1,2-Dichloroethane	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		1,2-Dichloroethane-d4	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		1,1,1-Trichloroethane	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		Carbon Tetrachloride	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		Benzene	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		Trichloroethene	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		2-Chloroethylvinylether	0	mg/kg	64.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		1,2-Dichloropropane	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		Bromodichloromethane	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		cis-1,3-Dichloropropene	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		trans-1,3-Dichloropropene	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		1,1,2-Trichloroethane	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		Dibromochloromethane	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		Bromoform	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		1,4-Dichlorobutane	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		Tetrachloroethene	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		1,1,2,2-Tetrachloroethane	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		Toluene	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		Toluene-d8	98	mg/kg	76
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		Chlorobenzene	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		Ethylbenzene	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		Bromofluorobenzene	96	mg/kg	67
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		1,3-Dichlorobenzene	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		1,4-Dichlorobenzene	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		1,2-Dichlorobenzene	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		2-Propanone	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		2-Butanone	0	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$6245		Dibromofluoromethane	91	mg/kg	71

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$624S		Naphthalene	3.4J	mg/kg	6.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		pyridine	AA	mg/kg	0.268
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		2-Fluorophenol	29	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		aniline	AA	mg/kg	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Phenol-d6	22	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Phenol	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		2-Chlorophenol	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		n-decane	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		o-cresol	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		acetophenone	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Hexachloroethane	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Naphthalene-D8	50	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Nitrobenzene-d5	31	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		p-cresol	AA	mg/kg	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Isophorone	AA	mg/kg	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Naphthalene	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Acenaphthene-d10	50	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Acenaphthene	AA	mg/kg	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Fluorene	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		2,4,6-Tribromophenol	33	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		n-octadecane	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Phenanthrene	5.630	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Anthracene	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		carbazole	2.420	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Fluoranthene	11.500	mg/kg	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Chrysene-d12	50	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Benzidine	AA	mg/kg	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Pyrene	8.650	mg/kg	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S		3,3-Dichlorobenzidine	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S	Benzo(a)anthracene	3.500	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S	Chrysene	4.430	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S	Perylene-D12	50	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S	Benzo(b)fluoranthene	3.390	mg/kg	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S	Benzo(k)fluoranthene	3.150	mg/kg	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S	Benzo(a)pyrene	3.370	mg/kg	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S	Indeno(1,2,3-cd)pyrene	2.370	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$625S	Benzo(ghi)perylene	2.710	mg/kg	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	Aldrin	0	ug/kg	0.571
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	Alpha-BHC	0	ug/kg	0.571
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	Beta-BHC	0	ug/kg	0.571
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	Delta-BHC	0	ug/kg	0.571
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	Gamma-BHC	0	ug/kg	0.571
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	Chlordane	0	ug/kg	14.3
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	4,4-DDD	0	ug/kg	0.571
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	4,4-DDT	0	ug/kg	0.571
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	4,4-DDE	0	ug/kg	0.571
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	Dieldrin	0	ug/kg	0.571
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	Endosulfan I	0	ug/kg	0.571
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	Endosulfan II	0	ug/kg	0.571
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	Endosulfan sulfate	0	ug/kg	0.571
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	Endrin	0	ug/kg	0.571
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	Endrin aldehyde	0	ug/kg	0.571
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	Heptachlor	0	ug/kg	0.571
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	Heptachlor epoxide	0	ug/kg	0.571
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	Toxaphene	0	ug/kg	28.6
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	PCB 1016	0	ug/kg	14.3
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	PCB 1221	0	ug/kg	14.3
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	PCB 1232	0	ug/kg	14.3
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	PCB 1242	0	ug/kg	14.3

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	PCB 1248	0	ug/kg	14.3
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	PCB 1254	0	ug/kg	14.3
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	PCB 1260	0	ug/kg	14.3
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	2,4,5,6-Tetrachloro-m-xyllene	36.8	ug/kg	62
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PESTS	Decachlorobiphenyl	47.6	ug/kg	58
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$ICP_WS	Arsenic_s	5.41	mg/kg	0.14
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$ICP_WS	Cadmium_s	0.27	mg/kg	0.03
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$ICP_WS	Calcium_s	70200	mg/kg	35.4
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$ICP_WS	Copper_s	34.3	mg/kg	0.50
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$ICP_WS	Iron_s	17400	mg/kg	70.8
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$ICP_WS	Lead_s	53.5	mg/kg	0.07
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$ICP_WS	Magnesium_s	10100	mg/kg	14.2
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$ICP_WS	Zinc_s	106	mg/kg	1.42
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg- dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Benz(a)anthracene	3.500	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Benzo(a)pyrene	3.370	ug/kg-dry	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Benzo(b)fluoranthene	3.390	ug/kg-dry	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Benzo(g,h,i)perylene	2.710	ug/kg-dry	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Benzo(k)fluoranthene	3.150	ug/kg-dry	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Carbazole	2.420	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Chrysene	4.430	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Fluoranthene	11.500	ug/kg-dry	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Indeno(1,2,3-cd)pyrene	2.370	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	o-Toluidine	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Phenanthrene	5.630	ug/kg-dry	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Pyrene	8.650	ug/kg-dry	0.143
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Surr: 2,4,6-Tribromophenol	33	%	10
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Surr: 2-Fluorobiphenyl	48	%	25
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Surr: 2-Fluorophenol	29	%	10
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Surr: 4-Terphenyl-d14	62	%	21
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Surr: Nitrobenzene-d5	31	%	21
AC08993	LM74	Little Miami Watershed	74	10/23/2012	17:00	\$PAH_WS	Surr: Phenol-d6	22	%	17
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Bromochloromethane	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Chloromethane	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Vinyl Chloride	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Bromomethane	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Chloroethane	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Trichlorofluoromethane	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Acrolein	0	mg/kg	177
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	1,1-Dichloroethene	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Acrylonitrile	0	mg/kg	177
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Methylene Chloride	0	mg/kg	35.4
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	1,1-Dichloroethane	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Chloroform	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	1,2-Dichloroethane	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	1,2-Dichloroethane-d4	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	1,1,1-Trichloroethane	0	mg/kg	8.9

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Analysis Code	Analysis Description	Results	Units	MDL
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Carbon Tetrachloride	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Benzene	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Trichloroethene	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	2-Chloroethylvinylether	0	mg/kg	88.6
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	1,2-Dichloropropane	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Bromodichloromethane	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	cis-1,3-Dichloropropene	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	trans-1,3-Dichloropropene	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	1,1,2-Trichloroethane	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Dibromochloromethane	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Bromoform	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	1,4-Dichlorobutane	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Tetrachloroethene	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Toluene	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Toluene-d8	100	mg/kg	76
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Chlorobenzene	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Ethylbenzene	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Bromofluorobenzene	97	mg/kg	67
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	1,3-Dichlorobenzene	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	1,4-Dichlorobenzene	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	1,2-Dichlorobenzene	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	2-Propanone	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	2-Butanone	0	mg/kg	8.9
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$624S	Dibromofluoromethane	97	mg/kg	71
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	pyridine	AA	mg/kg	0.286
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	2-Fluorophenol	32	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	aniline	AA	mg/kg	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	Phenol-d6	32	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	Phenol	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	2-Chlorophenol	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	n-decane	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	o-cresol	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	acetophenone	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	Hexachloroethane	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	Naphthalene-D8	50	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	Nitrobenzene-d5	36	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	p-cresol	AA	mg/kg	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	Nitrobenzene	AA	mg/kg	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	Isophorone	AA	mg/kg	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	Decafluorobiphenyl	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	2-Nitrophenol	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	Naphthalene	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	alpha terpineol	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	Hexachlorobutadiene	AA	mg/kg	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	Acenaphthene-d10	50	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	2,3 dichloroaniline	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	2-Chloronaphthalene	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	Dimethyl phthalate	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	Acenaphthylene	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	Acenaphthene	AA	mg/kg	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	2,4-Dinitrophenol	AA	mg/kg	0.286

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		Fluorene	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		2,4,6-Tribromophenol	34	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		n-octadecane	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		Phenanthrene	0.934	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		Anthracene	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		carbazole	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		Fluoranthene	2.360	mg/kg	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		Chrysene-d12	50	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		Benzidine	AA	mg/kg	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		Pyrene	1.890	mg/kg	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		Benzo(a)anthracene	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		Chrysene	1.110	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		Perylene-D12	50	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		Benzo(b)fluoranthene	1.660	mg/kg	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		Benzo(a)pyrene	AA	mg/kg	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S		Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	Aldrin	0	ug/kg	0.571
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	Alpha-BHC	0	ug/kg	0.571
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	Beta-BHC	0	ug/kg	0.571
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	Delta-BHC	0	ug/kg	0.571
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	Gamma-BHC	0	ug/kg	0.571
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	Chlordane	0	ug/kg	14.3
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	4,4-DDD	0	ug/kg	0.571
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	4,4-DDT	0	ug/kg	0.571
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	4,4-DDE	0	ug/kg	0.571
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	Dieldrin	0	ug/kg	0.571
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	Endosulfan I	0	ug/kg	0.571
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	Endosulfan II	0	ug/kg	0.571
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	Endosulfan sulfate	0	ug/kg	0.571
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	Endrin	0	ug/kg	0.571
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	Endrin aldehyde	0	ug/kg	0.571
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	Heptachlor	0	ug/kg	0.571
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	Heptachlor epoxide	0	ug/kg	0.571
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	Toxaphene	0	ug/kg	28.6
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	PCB 1016	0	ug/kg	14.3
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	PCB 1221	0	ug/kg	14.3
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	PCB 1232	0	ug/kg	14.3
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	PCB 1242	0	ug/kg	14.3
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	PCB 1248	0	ug/kg	14.3
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	PCB 1254	0	ug/kg	14.3
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	PCB 1260	0	ug/kg	14.3
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	2,4,5,6-Tetrachloro-m-xylene	38.8	ug/kg	62
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PESTS	decachlorobiphenyl	43.7	ug/kg	58
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$ICP_WS	Arsenic_s	13.4	mg/kg	0.14
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$ICP_WS	Cadmium_s	0.33	mg/kg	0.03
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$ICP_WS	Calcium_s	28400	mg/kg	35.1
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$ICP_WS	Copper_s	32.4	mg/kg	0.49

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$ICP_WS		Iron_s	19500	mg/kg	70.3
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$ICP_WS		Lead_s	33.8	mg/kg	0.07
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$ICP_WS		Magnesium_s	5760	mg/kg	14.1
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$ICP_WS		Zinc_s	84.9	mg/kg	1.41
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		1,2-Dichlorobenzene	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		1,3-Dichlorobenzene	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		1,4-dichlorobenzene	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		1-Chloronaphthalene	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		1-Naphthylamine	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		2,4-Dichlorophenol	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		2-Methylnaphthalene	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		2-Methylphenol	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		2-Naphthylamine	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		2-Nitroaniline	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		2-Picoline	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		3-Methylcholanthrene	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		3-Nitroaniline	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS		4,6-Dinitro-2methylphenol	b	ug/kg-dry	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Benzo(b)fluoranthene	1.660	ug/kg-dry	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Chrysene	1.110	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Fluoranthene	2.360	ug/kg-dry	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	N-Nitrosopiperidine	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Phenanthrene	0.934	ug/kg-dry	0.143
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Pyrene	1.890	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Surr: 2,4,6-Tribromophenol	34	%	10
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Surr: 2-Fluorobiphenyl	59	%	25
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Surr: 2-Fluorophenol	32	%	10
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Surr: 4-Terphenyl-d14	77	%	21
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Surr: Nitrobenzene-d5	36	%	21
AC08994	LM72	Little Miami Watershed	72	10/23/2012	16:40	\$PAH_WS	Surr: Phenol-d6	32	%	17
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Bromochloromethane	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Chloromethane	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Vinyl Chloride	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Bromomethane	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Chloroethane	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Trichlorofluoromethane	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Acrolein	0	mg/kg	152
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	1,1-Dichloroethene	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Acrylonitrile	0	mg/kg	152
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Methylene Chloride	0	mg/kg	30.3
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	1,1-Dichloroethane	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Chloroform	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	1,2-Dichloroethane	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	1,2-Dichloroethane-d4	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	1,1,1-Trichloroethane	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Carbon Tetrachloride	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Benzene	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Trichloroethene	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	2-Chloroethylvinylether	0	mg/kg	75.9
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	1,2-Dichloropropane	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Bromodichloromethane	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	cis-1,3-Dichloropropene	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	trans-1,3-Dichloropropene	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	1,1,2-Trichloroethane	0	mg/kg	7.6

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Dibromochloromethane	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Bromoform	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	1,4-Dichlorobutane	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Tetrachloroethene	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Toluene	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Toluene-d8	98	mg/kg	76
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Chlorobenzene	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Ethylbenzene	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Bromofluorobenzene	93	mg/kg	67
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	1,3-Dichlorobenzene	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	1,4-Dichlorobenzene	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	1,2-Dichlorobenzene	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	2-Propanone	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	2-Butanone	0	mg/kg	7.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$624S	Dibromofluoromethane	97	mg/kg	71
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	pyridine	AA	mg/kg	0.286
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	2-Fluorophenol	39	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	aniline	AA	mg/kg	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Phenol-d6	35	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Phenol	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	2-Chlorophenol	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	n-decane	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	o-cresol	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	acetophenone	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Hexachloroethane	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Naphthalene-D8	50	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Nitrobenzene-d5	48	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	p-cresol	AA	mg/kg	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Nitrobenzene	AA	mg/kg	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Isophorone	AA	mg/kg	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Decafluorobiphenyl	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	2-Nitrophenol	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Naphthalene	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	alpha terpineol	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Hexachlorobutadiene	AA	mg/kg	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Acenaphthene-d10	50	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	2,3 dichloroaniline	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	2-Chloronaphthalene	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Dimethyl phthalate	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Acenaphthylene	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Acenaphthene	AA	mg/kg	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	2,4-Dinitrophenol	AA	mg/kg	0.286
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	4-Nitrophenol	AA	mg/kg	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Diethyl phthalate	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Fluorene	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Phenanthrene-D10	50	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	1,2-Diphenylhydrazine	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	2,4,6-Tribromophenol	30	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Hexachlorobenzene	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Pentachlorophenol	AA	mg/kg	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	n-octadecane	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Phenanthrene	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Anthracene	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	carbazole	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Fluoranthene	AA	mg/kg	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Chrysene-d12	50	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Benzidine	AA	mg/kg	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Pyrene	AA	mg/kg	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Benzo(a)anthracene	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Chrysene	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Perylene-D12	50	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	Aldrin	0	ug/kg	0.571
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	Alpha-BHC	0	ug/kg	0.571
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	Beta-BHC	0	ug/kg	0.571
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	Delta-BHC	0	ug/kg	0.571
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	Gamma-BHC	0	ug/kg	0.571
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	Chlordane	0	ug/kg	14.3
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	4,4-DDD	0	ug/kg	0.571

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	4,4-DDT	0	ug/kg	0.571
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	4,4-DDE	0	ug/kg	0.571
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	Dieldrin	0	ug/kg	0.571
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	Endosulfan I	0	ug/kg	0.571
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	Endosulfan II	0	ug/kg	0.571
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	Endosulfan sulfate	0	ug/kg	0.571
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	Endrin	0	ug/kg	0.571
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	Endrin aldehyde	0	ug/kg	0.571
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	Heptachlor	0	ug/kg	0.571
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	Heptachlor epoxide	0	ug/kg	0.571
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	Toxaphene	0	ug/kg	28.6
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	PCB 1016	0	ug/kg	14.3
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	PCB 1221	0	ug/kg	14.3
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	PCB 1232	0	ug/kg	14.3
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	PCB 1242	0	ug/kg	14.3
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	PCB 1248	0	ug/kg	14.3
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	PCB 1254	0	ug/kg	14.3
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	PCB 1260	0	ug/kg	14.3
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	2,4,5,6-Tetrachloro-m-xylene	41.4	ug/kg	62
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PESTS	decachlorobiphenyl	38.6	ug/kg	58
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$ICP_WS	Arsenic_s	3.07	mg/kg	0.14
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$ICP_WS	Cadmium_s	0.10	mg/kg	0.03
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$ICP_WS	Calcium_s	50100	mg/kg	34.4
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$ICP_WS	Copper_s	7.44	mg/kg	0.48
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$ICP_WS	Iron_s	10500	mg/kg	6.89
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$ICP_WS	Lead_s	13.4	mg/kg	0.07
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$ICP_WS	Magnesium_s	8920	mg/kg	13.8
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$ICP_WS	Zinc_s	32.1	mg/kg	1.38
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Surr: 2,4,6-Tribromophenol	30	%	10
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Surr: 2-Fluorobiphenyl	65	%	25
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Surr: 2-Fluorophenol	39	%	10
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Surr: 4-Terphenyl-d14	82	%	21
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Surr: Nitrobenzene-d5	48	%	21
AC08995	LM13	Little Miami Watershed	13 (3261-03)	10/23/2012	16:00	\$PAH_WS	Surr: Phenol-d6	35	%	17
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Bromochloromethane	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Chloromethane	0	mg/kg	10.7

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Vinyl Chloride	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Bromomethane	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Chloroethane	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Trichlorofluoromethane	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Acrolein	0	mg/kg	214
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	1,1-Dichloroethene	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Acrylonitrile	0	mg/kg	214
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Methylene Chloride	0	mg/kg	42.9
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	1,1-Dichloroethane	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Chloroform	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	1,2-Dichloroethane	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	1,2-Dichloroethane-d4	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	1,1,1-Trichloroethane	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Carbon Tetrachloride	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Benzene	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Trichloroethene	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	2-Chloroethylvinylether	0	mg/kg	107
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	1,2-Dichloropropane	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Bromodichloromethane	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	cis-1,3-Dichloropropene	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	trans-1,3-Dichloropropene	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	1,1,2-Trichloroethane	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Dibromochloromethane	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Bromoform	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	1,4-Dichlorobutane	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Tetrachloroethene	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Toluene	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Toluene-d8	99	mg/kg	76
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Chlorobenzene	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Ethylbenzene	0	mg/kg	10.7

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Bromofluorobenzene	95	mg/kg	67
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	1,3-Dichlorobenzene	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	1,4-Dichlorobenzene	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	1,2-Dichlorobenzene	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	2-Propanone	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	2-Butanone	0	mg/kg	10.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$624S	Dibromofluoromethane	96	mg/kg	71
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	pyridine	AA	mg/kg	0.286
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	2-Fluorophenol	31	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	aniline	AA	mg/kg	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Phenol-d6	29	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Phenol	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	2-Chlorophenol	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	n-decane	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	o-cresol	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	acetophenone	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Hexachloroethane	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Naphthalene-D8	50	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Nitrobenzene-d5	39	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	p-cresol	AA	mg/kg	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Nitrobenzene	AA	mg/kg	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Isophorone	AA	mg/kg	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Decafluorobiphenyl	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	2-Nitrophenol	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	1,2,4-Trichlorobenzene	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Naphthalene	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	alpha terpineol	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Hexachlorobutadiene	AA	mg/kg	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Acenaphthene-d10	50	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	2,3 dichloroaniline	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	2-Chloronaphthalene	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Dimethyl phthalate	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Acenaphthylene	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Acenaphthene	AA	mg/kg	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	2,4-Dinitrophenol	AA	mg/kg	0.286
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	4-Nitrophenol	AA	mg/kg	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Diethyl phthalate	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Fluorene	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Phenanthrene-D10	50	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	2,4,6-Tribromophenol	29	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Hexachlorobenzene	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Pentachlorophenol	AA	mg/kg	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	n-octadecane	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Phenanthrene	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Anthracene	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	carbazole	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Fluoranthene	AA	mg/kg	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Chrysene-d12	50	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Benzidine	AA	mg/kg	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Pyrene	AA	mg/kg	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Benzo(a)anthracene	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Chrysene	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Perylene-D12	50	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	Aldrin	0	ug/kg	0.571
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	Alpha-BHC	0	ug/kg	0.571
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	Beta-BHC	0	ug/kg	0.571
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	Delta-BHC	0	ug/kg	0.571
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	Gamma-BHC	0	ug/kg	0.571
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	Chlordane	0	ug/kg	14.3
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	4,4-DDD	0	ug/kg	0.571
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	4,4-DDT	0	ug/kg	0.571
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	4,4-DDE	0	ug/kg	0.571
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	Dieldrin	0	ug/kg	0.571
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	Endosulfan I	0	ug/kg	0.571
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	Endosulfan II	0	ug/kg	0.571
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	Endosulfan sulfate	0	ug/kg	0.571
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	Endrin	0	ug/kg	0.571
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	Endrin aldehyde	0	ug/kg	0.571
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	Heptachlor	0	ug/kg	0.571

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	Heptachlor epoxide	0	ug/kg	0.571
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	Toxaphene	0	ug/kg	28.6
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	PCB 1016	0	ug/kg	14.3
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	PCB 1221	0	ug/kg	14.3
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	PCB 1232	0	ug/kg	14.3
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	PCB 1242	0	ug/kg	14.3
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	PCB 1248	0	ug/kg	14.3
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	PCB 1254	0	ug/kg	14.3
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	PCB 1260	0	ug/kg	14.3
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	2,4,5,6-Tetrachloro-m-xylene	61.8	ug/kg	62
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PESTS	Decachlorobiphenyl	49.2	ug/kg	58
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$ICP_WS	Arsenic_s	5.41	mg/kg	0.19
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$ICP_WS	Cadmium_s	0.17	mg/kg	0.04
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$ICP_WS	Calcium_s	38300	mg/kg	47.7
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$ICP_WS	Copper_s	18.6	mg/kg	0.67
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$ICP_WS	Iron_s	22600	mg/kg	95.4
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$ICP_WS	Lead_s	18.5	mg/kg	0.10
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$ICP_WS	Magnesium_s	9870	mg/kg	19.1
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$ICP_WS	Zinc_s	73.9	mg/kg	1.91
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg- dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Surr: 2,4,6-Tribromophenol	29	%	10
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Surr: 2-Fluorobiphenyl	61	%	25
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Surr: 2-Fluorophenol	31	%	10
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Surr: 4-Terphenyl-d14	79	%	21
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Surr: Nitrobenzene-d5	39	%	21
AC08996	LM12	Little Miami Watershed	12 (3261-04)	10/23/2012	15:30	\$PAH_WS	Surr: Phenol-d6	29	%	17
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Bromochloromethane	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Chloromethane	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Vinyl Chloride	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Bromomethane	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Chloroethane	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Trichlorofluoromethane	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Acrolein	0	mg/kg	182
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	1,1-Dichloroethene	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Acrylonitrile	0	mg/kg	182
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Methylene Chloride	0	mg/kg	36.4
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	9.1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Analysis Code	Analysis Description	Results	Units	MDL
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	1,1-Dichloroethane	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Chloroform	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	1,2-Dichloroethane	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	1,2-Dichloroethane-d4	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	1,1,1-Trichloroethane	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Carbon Tetrachloride	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Benzene	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Trichloroethene	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	2-Chloroethylvinylether	0	mg/kg	91.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	1,2-Dichloropropane	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Bromodichloromethane	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	cis-1,3-Dichloropropene	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	trans-1,3-Dichloropropene	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	1,1,2-Trichloroethane	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Dibromochloromethane	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Bromoform	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	1,4-Dichlorobutane	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Tetrachloroethene	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Toluene	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Toluene-d8	98	mg/kg	76
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Chlorobenzene	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Ethylbenzene	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Bromofluorobenzene	93	mg/kg	67
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	1,3-Dichlorobenzene	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	1,4-Dichlorobenzene	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	1,2-Dichlorobenzene	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	2-Propanone	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	2-Butanone	0	mg/kg	9.1
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$624S	Dibromofluoromethane	99	mg/kg	71
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S	1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S	pyridine	AA	mg/kg	0.286

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		2-Fluorophenol	25	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		aniline	AA	mg/kg	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Phenol-d6	23	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Phenol	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		2-Chlorophenol	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		n-decane	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		o-cresol	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		acetophenone	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Hexachloroethane	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Naphthalene-D8	50	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Nitrobenzene-d5	33	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		p-cresol	AA	mg/kg	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Isophorone	AA	mg/kg	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Naphthalene	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Acenaphthene-d10	50	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Acenaphthene	AA	mg/kg	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Fluorene	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		2,4,6-Tribromophenol	28	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		n-octadecane	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Phenanthrene	0.966	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Anthracene	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		carbazole	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Fluoranthene	1.630	mg/kg	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Chrysene-d12	50	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Benzidine	AA	mg/kg	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Pyrene	AA	mg/kg	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Benzo(a)anthracene	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		Chrysene	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S		bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S	Perylene-D12	50	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	Aldrin	0	ug/kg	0.571
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	Alpha-BHC	0	ug/kg	0.571
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	Beta-BHC	0	ug/kg	0.571
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	Delta-BHC	0	ug/kg	0.571
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	Gamma-BHC	0	ug/kg	0.571
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	Chlordane	0	ug/kg	14.3
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	4,4-DDD	0	ug/kg	0.571
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	4,4-DDT	0	ug/kg	0.571
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	4,4-DDE	0	ug/kg	0.571
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	Dieldrin	0	ug/kg	0.571
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	Endosulfan I	0	ug/kg	0.571
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	Endosulfan II	0	ug/kg	0.571
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	Endosulfan sulfate	0	ug/kg	0.571
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	Endrin	0	ug/kg	0.571
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	Endrin aldehyde	0	ug/kg	0.571
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	Heptachlor	0	ug/kg	0.571
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	Heptachlor epoxide	0	ug/kg	0.571
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	Toxaphene	0	ug/kg	28.6
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	PCB 1016	0	ug/kg	14.3
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	PCB 1221	0	ug/kg	14.3
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	PCB 1232	0	ug/kg	14.3
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	PCB 1242	0	ug/kg	14.3
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	PCB 1248	0	ug/kg	14.3
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	PCB 1254	0	ug/kg	14.3
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	PCB 1260	0	ug/kg	14.3

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	2,4,5,6-Tetrachloro-m-xylene	35.4	ug/kg	62
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PESTS	Decachlororbiphenyl	40.7	ug/kg	58
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$ICP_WS	Arsenic_s	3.12	mg/kg	0.14
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$ICP_WS	Cadmium_s	0.11	mg/kg	0.03
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$ICP_WS	Calcium_s	4200	mg/kg	35.6
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$ICP_WS	Copper_s	6.98	mg/kg	0.50
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$ICP_WS	Iron_s	9030	mg/kg	7.12
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$ICP_WS	Lead_s	11.8	mg/kg	0.07
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$ICP_WS	Magnesium_s	7750	mg/kg	14.2
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$ICP_WS	Zinc_s	28.5	mg/kg	1.42
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Fluoranthene	1.630	ug/kg-dry	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Phenanthrene	0.966	ug/kg-dry	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Surr: 2,4,6-Tribromophenol	28	%	10
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Surr: 2-Fluorobiphenyl	51	%	25
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Surr: 2-Fluorophenol	25	%	10
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Surr: 4-Terphenyl-d14	66	%	21
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Surr: Nitrobenzene-d5	33	%	21
AC08997	LM11	Little Miami Watershed	11	10/23/2012	15:00	\$PAH_WS	Surr: Phenol-d6	23	%	17
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Bromochloromethane	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Chloromethane	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Vinyl Chloride	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Bromomethane	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Chloroethane	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Trichlorofluoromethane	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Acrolein	0	mg/kg	215
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	1,1-Dichloroethene	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Acrylonitrile	0	mg/kg	215
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Methylene Chloride	0	mg/kg	43.0
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	1,1-Dichloroethane	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Chloroform	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	1,2-Dichloroethane	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	1,2-Dichloroethane-d4	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	1,1,1-Trichloroethane	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Carbon Tetrachloride	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Benzene	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Trichloroethene	0	mg/kg	10.7

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Analysis Code	Analysis Description	Results	Units	MDL
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	2-Chloroethylvinylether	0	mg/kg	107
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	1,2-Dichloropropane	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Bromodichloromethane	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	cis-1,3-Dichloropropene	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	trans-1,3-Dichloropropene	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	1,1,2-Trichloroethane	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Dibromochloromethane	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Bromoform	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	1,4-Dichlorobutane	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Tetrachloroethene	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Toluene	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Toluene-d8	100	mg/kg	76
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Chlorobenzene	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Ethylbenzene	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Bromofluorobenzene	95	mg/kg	67
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	1,3-Dichlorobenzene	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	1,4-Dichlorobenzene	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	1,2-Dichlorobenzene	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	2-Propanone	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	2-Butanone	0	mg/kg	10.7
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$624S	Dibromofluoromethane	98	mg/kg	71
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S	1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S	pyridine	AA	mg/kg	0.286
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S	2-Fluorophenol	38	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S	aniline	AA	mg/kg	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S	Phenol-d6	35	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S	Phenol	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S	2-Chlorophenol	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S	n-decane	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S	Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		o-cresol	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		acetophenone	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Hexachloroethane	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Naphthalene-D8	50	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Nitrobenzene-d5	39	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		p-cresol	AA	mg/kg	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Isophorone	AA	mg/kg	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Naphthalene	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Acenaphthene-d10	50	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Acenaphthene	AA	mg/kg	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Diethyl phthalate	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Fluorene	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		2,4,6-Tribromophenol	28	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		n-octadecane	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Phenanthrene	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Anthracene	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		carbazole	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Fluoranthene	AA	mg/kg	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Chrysene-d12	50	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Benzidine	AA	mg/kg	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Pyrene	AA	mg/kg	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Benzo(a)anthracene	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Chrysene	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Perylene-D12	50	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Benzo(b)fluoranthene	AA	mg/kg	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Benzo(a)pyrene	AA	mg/kg	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$625S		Benzo(ghi)perylene	AA	mg/kg	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS		Aldrin	0	ug/kg	0.571

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	Alpha-BHC	0	ug/kg	0.571
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	Beta-BHC	0	ug/kg	0.571
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	Delta-BHC	0	ug/kg	0.571
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	Gamma-BHC	0	ug/kg	0.571
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	Chlordane	0	ug/kg	14.3
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	4,4-DDD	0	ug/kg	0.571
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	4,4-DDT	0	ug/kg	0.571
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	4,4-DDE	0	ug/kg	0.571
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	Dieldrin	0	ug/kg	0.571
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	Endosulfan I	0	ug/kg	0.571
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	Endosulfan II	0	ug/kg	0.571
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	Endosulfan sulfate	0	ug/kg	0.571
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	Endrin	0	ug/kg	0.571
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	Endrin aldehyde	0	ug/kg	0.571
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	Heptachlor	0	ug/kg	0.571
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	Heptachlor epoxide	0	ug/kg	0.571
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	Toxaphene	0	ug/kg	0.571
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	PCB 1016	0	ug/kg	14.3
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	PCB 1221	0	ug/kg	14.3
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	PCB 1232	0	ug/kg	14.3
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	PCB 1242	0	ug/kg	14.3
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	PCB 1248	0	ug/kg	14.3
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	PCB 1254	0	ug/kg	14.3
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	PCB 1260	0	ug/kg	14.3
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	2,4,5,6-tetrachloro-m-xylene	50.1	ug/kg	62
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PESTS	Decachlorobiphenyl	49.5	ug/kg	58
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$ICP_WS	Arsenic_s	4.73	mg/kg	0.18
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$ICP_WS	Cadmium_s	0.14	mg/kg	0.04
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$ICP_WS	Calcium_s	33700	mg/kg	45.2
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$ICP_WS	Copper_s	13.8	mg/kg	0.63
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$ICP_WS	Iron_s	19600	mg/kg	90.4
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$ICP_WS	Lead_s	20.9	mg/kg	0.09
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$ICP_WS	Magnesium_s	7960	mg/kg	18.1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$ICP_WS	Zinc_s	59.9	mg/kg	1.81
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Surr: 2,4,6-Tribromophenol	28	%	10
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Surr: 2-Fluorobiphenyl	62	%	25

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Surr: 2-Fluorophenol	38	%	10
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Surr: 4-Terphenyl-d14	17	%	21
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Surr: Nitrobenzene-d5	39	%	21
AC08998	LM36	Little Miami Watershed	36	10/23/2012	14:45	\$PAH_WS	Surr: Phenol-d6	35	%	17
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	Bromochloromethane	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	Chloromethane	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	Vinyl Chloride	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	Bromomethane	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	Chloroethane	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	Trichlorofluoromethane	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	Acrolein	0	mg/kg	156
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	1,1-Dichloroethene	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	Acrylonitrile	0	mg/kg	156
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	Methylene Chloride	0	mg/kg	31.1
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	1,1-Dichloroethane	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	Chloroform	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	1,2-Dichloroethane	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	1,2-Dichloroethane-d4	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	1,1,1-Trichloroethane	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	Carbon Tetrachloride	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	Benzene	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	Trichloroethene	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	2-Chloroethylvinylether	0	mg/kg	77.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	1,2-Dichloropropane	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	Bromodichloromethane	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	cis-1,3-Dichloropropene	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	trans-1,3-Dichloropropene	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	1,1,2-Trichloroethane	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	Dibromochloromethane	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	Bromoform	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	1,4-Dichlorobutane	0	mg/kg	7.8

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Analysis Code	Analysis Description	Results	Units	MDL
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	Tetrachloroethene	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	Toluene	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	Toluene-d8	101	mg/kg	76
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	Chlorobenzene	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	Ethylbenzene	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	Bromofluorobenzene	94	mg/kg	67
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	1,3-Dichlorobenzene	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	1,4-Dichlorobenzene	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	1,2-Dichlorobenzene	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	2-Propanone	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	2-Butanone	0	mg/kg	7.8
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$624S	DiBROMOFLUOROMETHANE	98	mg/kg	71
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	pyridine	AA	mg/kg	0.286
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	2-Fluorophenol	44	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	aniline	AA	mg/kg	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Phenol-d6	39	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Phenol	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	2-Chlorophenol	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	n-decane	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	o-cresol	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	acetophenone	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Hexachloroethane	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Naphthalene-D8	50	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Nitrobenzene-d5	46	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	p-cresol	AA	mg/kg	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Nitrobenzene	AA	mg/kg	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Isophorone	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		Naphthalene	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		Acenaphthene-d10	50	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		Acenaphthene	AA	mg/kg	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		Fluorene	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		2,4,6-Tribromophenol	31	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Pentachlorophenol	AA	mg/kg	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	n-octadecane	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Phenanthrene	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Anthracene	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	carbazole	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Fluoranthene	AA	mg/kg	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Chrysene-d12	50	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Benzidine	AA	mg/kg	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Pyrene	AA	mg/kg	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Benzo(a)anthracene	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Chrysene	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Perylene-D12	50	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	Aldrin	0	ug/kg	0.571
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	Alpha-BHC	0	ug/kg	0.571
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	Beta-BHC	0	ug/kg	0.571
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	Delta-BHC	0	ug/kg	0.571
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	Gamma-BHC	0	ug/kg	0.571
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	Chlordane	0	ug/kg	14.3
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	4,4-DDD	0	ug/kg	0.571
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	4,4-DDT	0	ug/kg	0.571
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	4,4-DDE	0	ug/kg	0.571
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	Dieldrin	0	ug/kg	0.571

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	Endosulfan I	0	ug/kg	0.571
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	Endosulfan II	0	ug/kg	0.571
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	Endosulfan sulfate	0	ug/kg	0.571
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	Endrin	0	ug/kg	0.571
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	Endrin aldehyde	0	ug/kg	0.571
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	Heptachlor	0	ug/kg	0.571
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	Heptachlor epoxide	0	ug/kg	0.571
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	Toxaphene	0	ug/kg	28.6
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	PCB 1016	0	ug/kg	14.3
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	PCB 1221	0	ug/kg	14.3
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	PCB 1232	0	ug/kg	14.3
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	PCB 1242	0	ug/kg	14.3
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	PCB 1248	0	ug/kg	14.3
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	PCB 1254	0	ug/kg	14.3
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	PCB 1260	0	ug/kg	14.3
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	2,4,5,6-Tetrachloro-m-xylene	43.9	ug/kg	62
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PESTS	Decachlorobiphenyl	41.3	ug/kg	58
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$ICP_WS	Arsenic_s	3.53	mg/kg	0.14
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$ICP_WS	Cadmium_s	0.10	mg/kg	0.03
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$ICP_WS	Calcium_s	32600	mg/kg	35.9
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$ICP_WS	Copper_s	9.60	mg/kg	0.50
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$ICP_WS	Iron_s	11800	mg/kg	7.18
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$ICP_WS	Lead_s	9.60	mg/kg	0.07
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$ICP_WS	Magnesium_s	5930	mg/kg	14.4
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$ICP_WS	Zinc_s	38.6	mg/kg	1.44
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg- dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Surr: 2,4,6-Tribromophenol	31	%	10
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Surr: 2-Fluorobiphenyl	72	%	25
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Surr: 2-Fluorophenol	44	%	10
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Surr: 4-Terphenyl-d14	26	%	21
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Surr: Nitrobenzene-d5	46	%	21
AC08999	LM34	Little Miami Watershed	34	10/23/2012	14:30	\$PAH_WS	Surr: Phenol-d6	39	%	17
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	Bromochloromethane	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	Chloromethane	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	Vinyl Chloride	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	Bromomethane	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	Chloroethane	0	mg/kg	8.2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	Trichlorofluoromethane	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	Acrolein	0	mg/kg	163
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	1,1-Dichloroethene	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	Acrylonitrile	0	mg/kg	163
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	Methylene Chloride	0	mg/kg	32.7
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	1,1-Dichloroethane	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	Chloroform	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	1,2-Dichloroethane	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	1,2-Dichloroethane-d4	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	1,1,1-Trichloroethane	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	Carbon Tetrachloride	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	Benzene	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	Trichloroethene	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	2-Chloroethylvinylether	0	mg/kg	81.7
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	1,2-Dichloropropane	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	Bromodichloromethane	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	cis-1,3-Dichloropropene	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	trans-1,3-Dichloropropene	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	1,1,2-Trichloroethane	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	Dibromochloromethane	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	Bromoform	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	1,4-Dichlorobutane	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	Tetrachloroethene	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	Toluene	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	Toluene-d8	100	mg/kg	76
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	Chlorobenzene	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	Ethylbenzene	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	Bromofluorobenzene	95	mg/kg	67
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	1,3-Dichlorobenzene	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S	1,4-Dichlorobenzene	0	mg/kg	8.2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Code	Analysis Code	Analysis Description	Results	Units	MDL
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S		1,2-Dichlorobenzene	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S		2-Propanone	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S		2-Butanone	0	mg/kg	8.2
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$624S		Dibromofluoromethane	94	mg/kg	71
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		pyridine	AA	mg/kg	0.286
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		n-nitrosodimethylamine	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		2-Fluorophenol	40	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		aniline	AA	mg/kg	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		Phenol-d6	38	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		Phenol	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		2-Chlorophenol	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		n-decane	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		o-cresol	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		acetophenone	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		Hexachloroethane	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		Naphthalene-D8	50	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		Nitrobenzene-d5	47	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		p-cresol	AA	mg/kg	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		Isophorone	AA	mg/kg	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		Naphthalene	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S		alpha terpineol	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Hexachlorobutadiene	AA	mg/kg	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Acenaphthene-d10	50	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	2,3 dichloroaniline	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	2-Chloronaphthalene	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Dimethyl phthalate	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Acenaphthylene	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Acenaphthene	AA	mg/kg	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	2,4-Dinitrophenol	AA	mg/kg	0.286
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	4-Nitrophenol	AA	mg/kg	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	2,4-Dinitrotoluene	AA	mg/kg	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Diethyl phthalate	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Fluorene	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Phenanthrene-D10	50	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	2,4,6-Tribromophenol	27	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Hexachlorobenzene	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Pentachlorophenol	AA	mg/kg	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	n-octadecane	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Phenanthrene	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Anthracene	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	carbazole	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Fluoranthene	AA	mg/kg	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Chrysene-d12	50	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Benzidine	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Pyrene	AA	mg/kg	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Benzo(a)anthracene	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Chrysene	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Perylene-D12	50	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	Aldrin	0	ug/kg	0.571
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	Alpha-BHC	0	ug/kg	0.571
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	Beta-BHC	0	ug/kg	0.571
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	Delta-BHC	0	ug/kg	0.571
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	Gamma-BHC	0	ug/kg	0.571
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	Chlordane	0	ug/kg	0.571
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	4,4-DDD	0	ug/kg	0.571
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	4,4-DDT	0	ug/kg	0.571
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	4,4-DDE	0	ug/kg	0.571
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	Dieldrin	0	ug/kg	0.571
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	Endosulfan I	0	ug/kg	0.571
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	Endosulfan II	0	ug/kg	0.571
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	Endosulfan sulfate	0	ug/kg	0.571
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	Endrin	0	ug/kg	0.571
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	Endrin aldehyde	0	ug/kg	0.571
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	Heptachlor	0	ug/kg	0.571
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	Heptachlor epoxide	0	ug/kg	0.571
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	Toxaphene	0	ug/kg	28.6
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	PCB 1016	0	ug/kg	14.3

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	PCB 1221	0	ug/kg	14.3
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	PCB 1232	0	ug/kg	14.3
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	PCB 1242	0	ug/kg	14.3
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	PCB 1248	0	ug/kg	14.3
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	PCB 1254	0	ug/kg	14.3
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	PCB 1260	0	ug/kg	14.3
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	2,4,5,6-Tetrachloro-m-xylene	44.5	ug/kg	62
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PESTS	decachlorobiphenyl	42.3	ug/kg	58
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$ICP_WS	Arsenic_s	3.12	mg/kg	0.16
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$ICP_WS	Cadmium_s	0.12	mg/kg	0.03
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$ICP_WS	Calcium_s	36400	mg/kg	39.6
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$ICP_WS	Copper_s	8.81	mg/kg	0.55
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$ICP_WS	Iron_s	11200	mg/kg	7.93
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$ICP_WS	Lead_s	9.32	mg/kg	0.08
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$ICP_WS	Magnesium_s	6670	mg/kg	15.9
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$ICP_WS	Zinc_s	33.6	mg/kg	1.59
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Butyl benzyl phathalate	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Surr: 2,4,6-Tribromophenol	27	%	10
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Surr: 2-Fluorobiphenyl	65	%	25
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Surr: 2-Fluorophenol	40	%	10
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Surr: 4-Terphenyl-d14	17	%	21
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Surr: Nitrobenzene-d5	47	%	21
AC09000	LM35	Little Miami Watershed	35	10/23/2012	14:00	\$PAH_WS	Surr: Phenol-d6	38	%	17
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Bromochloromethane	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Chloromethane	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Vinyl Chloride	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Bromomethane	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Chloroethane	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Trichlorofluoromethane	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Acrolein	0	mg/kg	222
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	1,1-Dichloroethene	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Acrylonitrile	0	mg/kg	222
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Methylene Chloride	0	mg/kg	44.3
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	1,1-Dichloroethane	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Chloroform	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	11.1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	1,2-Dichloroethane	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	1,2-Dichloroethane-d4	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	1,1,1-Trichloroethane	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Carbon Tetrachloride	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Benzene	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Trichloroethene	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	2-Chloroethylvinylether	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	1,2-Dichloropropane	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Bromodichloromethane	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	cis-1,3-Dichloropropene	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	trans-1,3-Dichloropropene	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	1,1,2-Trichloroethane	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Dibromochloromethane	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Bromoform	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	1,4-Dichlorobutane	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Tetrachloroethene	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Toluene	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Toluene-d8	99	mg/kg	76
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Chlorobenzene	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Ethylbenzene	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Bromofluorobenzene	95	mg/kg	67
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	1,3-Dichlorobenzene	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	1,4-Dichlorobenzene	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	1,2-Dichlorobenzene	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	2-Propanone	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	2-Butanone	0	mg/kg	11.1
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$624S	Dibromofluoromethane	97	mg/kg	71
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	pyridine	AA	mg/kg	0.286
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	2-Fluorophenol	37	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	aniline	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		Phenol-d6	32	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		Phenol	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		2-Chlorophenol	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		n-decane	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		o-cresol	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		acetophenone	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		Hexachloroethane	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		Naphthalene-D8	50	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		Nitrobenzene-d5	38	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		p-cresol	AA	mg/kg	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		Isophorone	AA	mg/kg	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		Naphthalene	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		Acenaphthene-d10	50	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S		Acenaphthylene	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Acenaphthene	AA	mg/kg	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	2,4-Dinitrophenol	AA	mg/kg	0.286
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	4-Nitrophenol	AA	mg/kg	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	2,4-Dinitrotoluene	AA	mg/kg	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Diethyl phthalate	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Fluorene	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Phenanthrene-D10	50	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	2,4,6-Tribromophenol	21	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Hexachlorobenzene	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Pentachlorophenol	AA	mg/kg	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	n-octadecane	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Phenanthrene	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Anthracene	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	carbazole	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Fluoranthene	AA	mg/kg	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Chrysene-d12	50	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Benzidine	AA	mg/kg	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Pyrene	AA	mg/kg	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Benzo(a)anthracene	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Chrysene	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Perylene-D12	50	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	Aldrin	0	ug/kg	0.571
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	Alpha-BHC	0	ug/kg	0.571
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	Beta-BHC	0	ug/kg	0.571
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	Delta-BHC	0	ug/kg	0.571
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	Gamma-BHC	0	ug/kg	0.571
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	Chlordane	0	ug/kg	14.3
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	4,4-DDD	0	ug/kg	0.571
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	4,4-DDT	0	ug/kg	0.571
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	4,4-DDE	0	ug/kg	0.571
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	Dieldrin	0	ug/kg	0.571
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	Endosulfan I	0	ug/kg	0.571
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	Endosulfan II	0	ug/kg	0.571
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	Endosulfan sulfate	0	ug/kg	0.571
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	Endrin	0	ug/kg	0.571
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	Endrin aldehyde	0	ug/kg	0.571
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	Heptachlor	0	ug/kg	0.571
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	Heptachlor epoxide	0	ug/kg	0.571
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	Toxaphene	0	ug/kg	28.6
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	PCB 1016	0	ug/kg	14.3
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	PCB 1221	0	ug/kg	14.3
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	PCB 1232	0	ug/kg	14.3
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	PCB 1242	0	ug/kg	14.3
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	PCB 1248	0	ug/kg	14.3
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	PCB 1254	0	ug/kg	14.3
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	PCB 1260	0	ug/kg	14.3
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	2,4,5,6-Tetrachloro-m-xylene	46.0	ug/kg	62
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PESTS	Decachlorobiphenyl	43.2	ug/kg	58
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$ICP_WS	Arsenic_s	3.34	mg/kg	0.16

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$ICP_WS	Cadmium_s	0.13	mg/kg	0.03
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$ICP_WS	Calcium_s	40100	mg/kg	39.8
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$ICP_WS	Copper_s	9.62	mg/kg	0.56
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$ICP_WS	Iron_s	11700	mg/kg	7.95
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$ICP_WS	Lead_s	10.4	mg/kg	0.08
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$ICP_WS	Magnesium_s	6710	mg/kg	15.9
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$ICP_WS	Zinc_s	42.4	mg/kg	1.59
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Surr: 2,4,6-Tribromophenol	21	%	10
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Surr: 2-Fluorobiphenyl	61	%	25
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Surr: 2-Fluorophenol	37	%	10
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Surr: 4-Terphenyl-d14	13	%	21
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Surr: Nitrobenzene-d5	38	%	21
AC09001	LM32	Little Miami Watershed	32	10/23/2012	13:20	\$PAH_WS	Surr: Phenol-d6	32	%	17
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S	Bromochloromethane	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S	Chloromethane	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S	Vinyl Chloride	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S	Bromomethane	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S	Chloroethane	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S	Trichlorofluoromethane	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S	Acrolein	0	mg/kg	135
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S	1,1-Dichloroethene	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S	Acrylonitrile	0	mg/kg	135
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S	Methylene Chloride	0	mg/kg	27.0
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S	1,1-Dichloroethane	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S	Chloroform	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S	1,2-Dichloroethane	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S	1,2-Dichloroethane-d4	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S	1,1,1-Trichloroethane	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S	Carbon Tetrachloride	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S	Benzene	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S	Trichloroethene	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S	2-Chloroethylvinylether	0	mg/kg	67.5
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S	1,2-Dichloropropane	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S	Bromodichloromethane	0	mg/kg	6.7

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S		cis-1,3-Dichloropropene	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S		trans-1,3-Dichloropropene	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S		1,1,2-Trichloroethane	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S		Dibromochloromethane	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S		Bromoform	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S		1,4-Dichlorobutane	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S		Tetrachloroethene	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S		1,1,2,2-Tetrachloroethane	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S		Toluene	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S		Toluene-d8	102	mg/kg	76
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S		Chlorobenzene	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S		Ethylbenzene	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S		Bromofluorobenzene	99	mg/kg	67
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S		1,3-Dichlorobenzene	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S		1,4-Dichlorobenzene	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S		1,2-Dichlorobenzene	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S		2-Propanone	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S		2-Butanone	0	mg/kg	6.7
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$624S		Dibromofluoromethane	96	mg/kg	71
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		pyridine	AA	mg/kg	0.286
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		n-nitrosodimethylamine	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		2-Fluorophenol	39	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		aniline	AA	mg/kg	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		Phenol-d6	32	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		Phenol	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		2-Chlorophenol	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		n-decane	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		o-cresol	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		acetophenone	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		Hexachloroethane	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		Naphthalene-D8	50	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		Nitrobenzene-d5	54	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		p-cresol	AA	mg/kg	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		Isophorone	AA	mg/kg	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		Naphthalene	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		Acenaphthene-d10	50	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		Acenaphthene	1.140	mg/kg	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		Fluorene	1.200	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S		Phenanthrene-D10	50	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	2,4,6-Tribromophenol	35	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	Hexachlorobenzene	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	Pentachlorophenol	AA	mg/kg	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	n-octadecane	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	Phenanthrene	12.700	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	Anthracene	3.280	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	carbazole	2.600	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	Fluoranthene	18.200	mg/kg	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	Chrysene-d12	50	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	Benzidine	AA	mg/kg	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	Pyrene	13.100	mg/kg	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	Benzo(a)anthracene	5.220	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	Chrysene	5.930	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	Perylene-D12	50	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	Benzo(b)fluoranthene	5.140	mg/kg	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	Benzo(k)fluoranthene	3.150	mg/kg	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	Benzo(a)pyrene	4.470	mg/kg	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	Indeno(1,2,3-cd)pyrene	2.630	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$625S	Benzo(ghi)perylene	2.930	mg/kg	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	Aldrin	0	ug/kg	0.571
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	Alpha-BHC	0	ug/kg	0.571
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	Beta-BHC	0	ug/kg	0.571
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	Delta-BHC	0	ug/kg	0.571

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	Gamma-BHC	0	ug/kg	0.571
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	Chlordane	0	ug/kg	14.3
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	4,4-DDD	0	ug/kg	0.571
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	4,4-DDT	0	ug/kg	0.571
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	4,4-DDE	0	ug/kg	0.571
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	Dieldrin	0	ug/kg	0.571
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	Endosulfan I	0	ug/kg	0.571
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	Endosulfan II	0	ug/kg	0.571
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	Endosulfan sulfate	0	ug/kg	0.571
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	Endrin	0	ug/kg	0.571
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	Endrin aldehyde	0	ug/kg	0.571
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	Heptachlor	0	ug/kg	0.571
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	Heptachlor epoxide	0	ug/kg	0.571
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	Toxaphene	0	ug/kg	28.6
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	PCB 1016	0	ug/kg	14.3
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	PCB 1221	0	ug/kg	14.3
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	PCB 1232	0	ug/kg	14.3
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	PCB 1242	0	ug/kg	14.3
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	PCB 1248	0	ug/kg	14.3
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	PCB 1254	0	ug/kg	14.3
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	PCB 1260	0	ug/kg	14.3
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	2,4,5,6-Tetrachloro-m-xylene	36.7	ug/kg	62
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PESTS	deccachlorobiphenyl	71.5	ug/kg	58
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$ICP_WS	Arsenic_s	4.09	mg/kg	0.14
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$ICP_WS	Cadmium_s	0.33	mg/kg	0.03
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$ICP_WS	Calcium_s	15900	mg/kg	34.0
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$ICP_WS	Copper_s	15.2	mg/kg	0.48
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$ICP_WS	Iron_s	12100	mg/kg	6.79
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$ICP_WS	Lead_s	18.1	mg/kg	0.07
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$ICP_WS	Magnesium_s	3460	mg/kg	13.6
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$ICP_WS	Zinc_s	62.6	mg/kg	1.36
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Acenaphthene	1.140	ug/kg-dry	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Anthracene	3.280	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Benz(a)anthracene	5.220	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Benzo(a)pyrene	4.470	ug/kg-dry	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Benzo(b)fluoranthene	5.140	ug/kg-dry	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Benzo(g,h,i)perylene	2.930	ug/kg-dry	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Benzo(k)fluoranthene	3.150	ug/kg-dry	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Carbazole	2.600	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Chrysene	5.930	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Fluoranthene	18.200	ug/kg-dry	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Fluorene	1.200	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Indeno(1,2,3-cd)pyrene	2.630	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Phenanthrene	12.700	ug/kg-dry	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Pyrene	13.100	ug/kg-dry	0.143
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Surr: 2,4,6-Tribromophenol	35	%	10
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Surr: 2-Fluorobiphenyl	65	%	25
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Surr: 2-Fluorophenol	39	%	10
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Surr: 4-Terphenyl-d14	75	%	21
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Surr: Nitrobenzene-d5	54	%	21



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09049	LM57	Little Miami Watershed	57	10/25/2012	11:00	\$PAH_WS	Surr: Phenol-d6	32	%	17
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Bromochloromethane	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Chloromethane	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Vinyl Chloride	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Bromomethane	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Chloroethane	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Trichlorofluoromethane	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Acrolein	0	mg/kg	126
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	1,1-Dichloroethene	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Acrylonitrile	0	mg/kg	126
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Methylene Chloride	0	mg/kg	25.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	1,1-Dichloroethane	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Chloroform	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	1,2-Dichloroethane	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	1,2-Dichloroethane-d4	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	1,1,1-Trichloroethane	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Carbon Tetrachloride	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Benzene	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Trichloroethene	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	2-Chloroethylvinylether	0	mg/kg	63.2
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	1,2-Dichloropropane	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Bromodichloromethane	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	cis-1,3-Dichloropropene	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	trans-1,3-Dichloropropene	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	1,1,2-Trichloroethane	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Dibromochloromethane	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Bromoform	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	1,4-Dichlorobutane	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Tetrachloroethene	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Toluene	0	mg/kg	6.3

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Toluene-d8	107	mg/kg	76
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Chlorobenzene	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Ethylbenzene	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Bromofluorobenzene	95	mg/kg	67
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	1,3-Dichlorobenzene	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	1,4-Dichlorobenzene	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	1,2-Dichlorobenzene	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	2-Propanone	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	2-Butanone	0	mg/kg	6.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$624S	Dibromofluoromethane	96	mg/kg	71
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	pyridine	AA	mg/kg	0.286
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	2-Fluorophenol	25	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	aniline	AA	mg/kg	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Phenol-d6	24	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Phenol	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	2-Chlorophenol	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	n-decane	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	o-cresol	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	acetophenone	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Hexachloroethane	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Naphthalene-D8	50	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Nitrobenzene-d5	41	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	p-cresol	AA	mg/kg	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Nitrobenzene	AA	mg/kg	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Isophorone	AA	mg/kg	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Decafluorobiphenyl	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	2-Nitrophenol	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	2,4-Dimethylphenol	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		Naphthalene	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		Acenaphthene-d10	50	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		Acenaphthene	AA	mg/kg	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		Fluorene	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		2,4,6-Tribromophenol	29	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		n-octadecane	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S		Phenanthrene	1.260	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Analysis Code	Analysis Description	Results	Units	MDL
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Anthracene	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	carbazole	1.660	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Fluoranthene	2.930	mg/kg	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Chrysene-d12	50	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Benzidine	AA	mg/kg	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Pyrene	2.280	mg/kg	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Benzo(a)anthracene	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Chrysene	1.360	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Perylene-D12	50	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Benzo(b)fluoranthene	1.190	mg/kg	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	Aldrin	0	ug/kg	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	Alpha-BHC	0	ug/kg	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	Beta-BHC	0	ug/kg	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	Delta-BHC	0	ug/kg	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	Gamma-BHC	0	ug/kg	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	Chlordane	0	ug/kg	14.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	4,4-DDD	0	ug/kg	0.571
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	4,4-DDT	0	ug/kg	0.571
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	4,4-DDE	0	ug/kg	0.571
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	Dieldrin	0	ug/kg	0.571
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	Endosulfan I	0	ug/kg	0.571
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	Endosulfan II	0	ug/kg	0.571
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	Endosulfan sulfate	0	ug/kg	0.571

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	Endrin	0	ug/kg	0.571
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	Endrin aldehyde	0	ug/kg	0.571
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	Heptachlor	0	ug/kg	0.571
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	Heptachlor epoxide	0	ug/kg	0.571
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	Toxaphene	0	ug/kg	28.6
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	PCB 1016	0	ug/kg	14.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	PCB 1221	0	ug/kg	14.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	PCB 1232	0	ug/kg	14.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	PCB 1242	0	ug/kg	14.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	PCB 1248	0	ug/kg	14.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	PCB 1254	0	ug/kg	14.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	PCB 1260	0	ug/kg	14.3
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	2,4,5,6-tetrachloro-m-xylene	34.1	ug/kg	62
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PESTS	Decachlorobiphenyl	43.2	ug/kg	58
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$ICP_WS	Arsenic_s	7.17	mg/kg	0.13
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$ICP_WS	Cadmium_s	0.08	mg/kg	0.03
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$ICP_WS	Calcium_s	87800	mg/kg	33.5
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$ICP_WS	Copper_s	19.0	mg/kg	0.47
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$ICP_WS	Iron_s	2250	mg/kg	67.0
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$ICP_WS	Lead_s	21.9	mg/kg	0.07
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$ICP_WS	Magnesium_s	6610	mg/kg	13.4
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$ICP_WS	Zinc_s	70.7	mg/kg	1.34
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Benzo(b)fluoranthene	1.190	ug/kg-dry	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Carbazole	1.660	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Chrysene	1.360	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Fluoranthene	2.930	ug/kg-dry	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Phenanthrene	1.260	ug/kg-dry	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Pyrene	2.280	ug/kg-dry	0.143
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Surr: 2,4,6-Tribromophenol	29	%	10
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Surr: 2-Fluorobiphenyl	61	%	25
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Surr: 2-Fluorophenol	25	%	10
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Surr: 4-Terphenyl-d14	78	%	21
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Surr: Nitrobenzene-d5	41	%	21
AC09050	LM56	Little Miami Watershed	56	10/25/2012	10:00	\$PAH_WS	Surr: Phenol-d6	24	%	17
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Bromochloromethane	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Chloromethane	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Vinyl Chloride	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Bromomethane	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Chloroethane	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Trichlorofluoromethane	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Acrolein	0	mg/kg	132
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	1,1-Dichloroethene	0	mg/kg	6.6



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Acrylonitrile	0	mg/kg	132
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Methylene Chloride	0	mg/kg	26.3
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	1,1-Dichloroethane	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Chloroform	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	1,2-Dichloroethane	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	1,2-Dichloroethane-d4	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	1,1,1-Trichloroethane	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Carbon Tetrachloride	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Benzene	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Trichloroethene	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	2-Chloroethylvinylether	0	mg/kg	65.8
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	1,2-Dichloropropane	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Bromodichloromethane	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	cis-1,3-Dichloropropene	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	trans-1,3-Dichloropropene	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	1,1,2-Trichloroethane	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Dibromochloromethane	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Bromoform	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	1,4-Dichlorobutane	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Tetrachloroethene	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Toluene	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Toluene-d8	110	mg/kg	76
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Chlorobenzene	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Ethylbenzene	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Bromofluorobenzene	91	mg/kg	67
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	1,3-Dichlorobenzene	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	1,4-Dichlorobenzene	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	1,2-Dichlorobenzene	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	2-Propanone	0	mg/kg	6.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	2-Butanone	0	mg/kg	6.6

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$624S	Dibromofluoromethane	97	mg/kg	71
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	pyridine	AA	mg/kg	0.286
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	2-Fluorophenol	35	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	aniline	AA	mg/kg	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Phenol-d6	35	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Phenol	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	2-Chlorophenol	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	n-decane	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	o-cresol	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	acetophenone	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Hexachloroethane	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Naphthalene-D8	50	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Nitrobenzene-d5	49	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	p-cresol	AA	mg/kg	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Nitrobenzene	AA	mg/kg	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Isophorone	AA	mg/kg	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Decafluorobiphenyl	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	2-Nitrophenol	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	2,4-Dimethylphenol	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	2,4-Dichlorophenol	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Naphthalene	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	1-Fluoronaphthalene	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	alpha terpineol	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Hexachlorobutadiene	AA	mg/kg	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Acenaphthene-d10	50	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	2,3 dichloroaniline	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	2-Chloronaphthalene	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Dimethyl phthalate	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Acenaphthylene	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Acenaphthene	AA	mg/kg	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	2,4-Dinitrophenol	AA	mg/kg	0.286
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	4-Nitrophenol	AA	mg/kg	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	2,4-Dinitrotoluene	AA	mg/kg	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Diethyl phthalate	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Fluorene	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Phenanthrene-D10	50	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	2,4,6-Tribromophenol	40	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Hexachlorobenzene	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Pentachlorophenol	AA	mg/kg	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	n-octadecane	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Phenanthrene	3.370	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Anthracene	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	carbazole	1.890	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Fluoranthene	7.770	mg/kg	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Chrysene-d12	50	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Benzidine	AA	mg/kg	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Pyrene	6.040	mg/kg	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Benzo(a)anthracene	2.380	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Chrysene	3.420	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Perylene-D12	50	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Benzo(b)fluoranthene	2.850	mg/kg	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Benzo(k)fluoranthene	2.390	mg/kg	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Benzo(a)pyrene	2.460	mg/kg	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Indeno(1,2,3-cd)pyrene	1.800	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$625S	Benzo(ghi)perylene	2.130	mg/kg	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	Aldrin	0	ug/kg	0.571
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	Alpha-BHC	0	ug/kg	0.571
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	Beta-BHC	0	ug/kg	0.571
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	Delta-BHC	0	ug/kg	0.571
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	Gamma-BHC	0	ug/kg	0.571
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	Chlordane	0	ug/kg	0.571
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	4,4-DDD	0	ug/kg	0.571
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	4,4-DDT	0	ug/kg	0.571
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	4,4-DDE	0	ug/kg	0.571
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	Dieldrin	0	ug/kg	0.571
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	Endosulfan I	0	ug/kg	0.571
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	Endosulfan II	0	ug/kg	0.571
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	Endosulfan sulfate	0	ug/kg	0.571
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	Endrin	0	ug/kg	0.571
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	Endrin aldehyde	0	ug/kg	0.571
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	Heptachlor	0	ug/kg	0.571
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	Heptachlor epoxide	0	ug/kg	0.571
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	Toxaphene	0	ug/kg	28.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	PCB 1016	0	ug/kg	14.3
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	PCB 1221	0	ug/kg	14.3
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	PCB 1232	0	ug/kg	14.3
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	PCB 1242	0	ug/kg	14.3

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	PCB 1248	0	ug/kg	14.3
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	PCB 1254	0	ug/kg	14.3
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	PCB 1260	0	ug/kg	14.3
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	2,4,5,6-tetrachloro-m-xylene	32.3	ug/kg	14.3
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PESTS	Decachlorobiphenyl	66.9	ug/kg	62
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$ICP_WS	Arsenic_s	4.13	mg/kg	0.13
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$ICP_WS	Cadmium_s	0.10	mg/kg	0.03
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$ICP_WS	Calcium_s	43100	mg/kg	31.5
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$ICP_WS	Copper_s	18.0	mg/kg	0.44
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$ICP_WS	Iron_s	20700	mg/kg	63.0
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$ICP_WS	Lead_s	22.7	mg/kg	0.06
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$ICP_WS	Magnesium_s	6400	mg/kg	12.6
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$ICP_WS	Zinc_s	80.3	mg/kg	1.26
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Benz(a)anthracene	2.380	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Benzo(a)pyrene	2.460	ug/kg-dry	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Benzo(b)fluoranthene	2.850	ug/kg-dry	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Benzo(g,h,i)perylene	2.130	ug/kg-dry	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Benzo(k)fluoranthene	2.390	ug/kg-dry	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Carbazole	1.890	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Chrysene	3.420	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Dimethylamine	b	ug/kg-dry	0
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Diphenylamine	b	ug/kg-dry	0
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Fluoranthene	7.770	ug/kg-dry	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Indeno(1,2,3-cd)pyrene	1.800	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	N-Nitrosopiperidine	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	o-Toluidine	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Phenanthrene	3.370	ug/kg-dry	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Pyrene	6.040	ug/kg-dry	0.143
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Surr: 2,4,6-Tribromophenol	40	%	10
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Surr: 2-Fluorobiphenyl	70	%	25
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Surr: 2-Fluorophenol	35	%	10
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Surr: 4-Terphenyl-d14	85	%	21
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Surr: Nitrobenzene-d5	49	%	21
AC09051	LM55	Little Miami Watershed	55	10/25/2012	09:00	\$PAH_WS	Surr: Phenol-d6	35	%	17
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Bromochloromethane	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Chloromethane	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Vinyl Chloride	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Bromomethane	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Chloroethane	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Trichlorofluoromethane	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Acrolein	0	mg/kg	124
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	1,1-Dichloroethene	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Acrylonitrile	0	mg/kg	124
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Methylene Chloride	0	mg/kg	24.9
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	1,1-Dichloroethane	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Chloroform	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	1,2-Dichloroethane	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	1,2-Dichloroethane-d4	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	1,1,1-Trichloroethane	0	mg/kg	6.2



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Carbon Tetrachloride	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Benzene	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Trichloroethene	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	2-Chloroethylvinylether	0	mg/kg	62.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	1,2-Dichloropropane	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Bromodichloromethane	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	cis-1,3-Dichloropropene	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	trans-1,3-Dichloropropene	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	1,1,2-Trichloroethane	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Dibromochloromethane	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Bromoform	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	1,4-Dichlorobutane	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Tetrachloroethene	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Toluene	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Toluene-d8	105	mg/kg	76
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Chlorobenzene	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Ethylbenzene	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Bromofluorobenzene	96	mg/kg	67
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	1,3-Dichlorobenzene	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	1,4-Dichlorobenzene	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	1,2-Dichlorobenzene	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	2-Propanone	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	2-Butanone	0	mg/kg	6.2
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$624S	Dibromofluoromethane	95	mg/kg	71
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S	1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S	pyridine	AA	mg/kg	0.286
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S	2-Fluorophenol	36	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S	aniline	AA	mg/kg	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S	Phenol-d6	30	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S	Phenol	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		2-Chlorophenol	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		n-decane	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		o-cresol	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		acetophenone	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Hexachloroethane	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Naphthalene-D8	50	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Nitrobenzene-d5	50	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		p-cresol	AA	mg/kg	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Isophorone	AA	mg/kg	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Naphthalene	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Acenaphthene-d10	50	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Acenaphthene	AA	mg/kg	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Fluorene	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		1,2-Diphenylhydrazine	47	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		2,4,6-Tribromophenol	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		n-octadecane	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Phenanthrene	2.660	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Anthracene	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		carbazole	1.650	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Di-n-butyl phthalate	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Fluoranthene	4.530	mg/kg	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Chrysene-d12	50	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Benzidine	AA	mg/kg	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Pyrene	3.490	mg/kg	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Butyl benzyl phthalate	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Benzo(a)anthracene	1.440	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Chrysene	1.680	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Di-n-octyl phthalate	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Perylene-D12	50	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Benzo(b)fluoranthene	1.430	mg/kg	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Benzo(k)fluoranthene	AA	mg/kg	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Benzo(a)pyrene	1.210	mg/kg	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S		Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	Aldrin	0	ug/kg	0.571
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	Alpha-BHC	0	ug/kg	0.571
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	Beta-BHC	0	ug/kg	0.571
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	Delta-BHC	0	ug/kg	0.571
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	Gamma-BHC	0	ug/kg	0.571
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	Chlordane	0	ug/kg	14.3
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	4,4-DDD	0	ug/kg	0.571
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	4,4-DDT	0	ug/kg	0.571
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	4,4-DDE	0	ug/kg	0.571
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	Dieldrin	0	ug/kg	0.571
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	Endosulfan I	0	ug/kg	0.571
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	Endosulfan II	0	ug/kg	0.571
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	Endosulfan sulfate	0	ug/kg	0.571
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	Endrin	0	ug/kg	0.571
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	Endrin aldehyde	0	ug/kg	0.571
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	Heptachlor	0	ug/kg	0.571
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	Heptachlor epoxide	0	ug/kg	0.571
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	Toxaphene	0	ug/kg	28.6
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	PCB 1016	0	ug/kg	14.3
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	PCB 1221	0	ug/kg	14.3
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	PCB 1232	0	ug/kg	14.3
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	PCB 1242	0	ug/kg	14.3
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	PCB 1248	0	ug/kg	14.3
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	PCB 1254	0	ug/kg	14.3
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	PCB 1260	0	ug/kg	14.3
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	2,4,5,6-tetrachloro-m-xylene	16.6	ug/kg	62
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PESTS	deccachlorobiphenyl	42.5	ug/kg	58
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$ICP_WS	Arsenic_s	1.94	mg/kg	0.11
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$ICP_WS	Cadmium_s	0.13	mg/kg	0.02
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$ICP_WS	Calcium_s	175000	mg/kg	28.5
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$ICP_WS	Copper_s	16.3	mg/kg	0.40

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$ICP_WS	Iron_s	9440	mg/kg	5.71
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$ICP_WS	Lead_s	12.4	mg/kg	0.06
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$ICP_WS	Magnesium_s	43000	mg/kg	11.4
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$ICP_WS	Zinc_s	43.0	mg/kg	1.14
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Benz(a)anthracene	1.440	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Benzo(a)pyrene	1.210	ug/kg-dry	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Benzo(b)fluoranthene	1.430	ug/kg-dry	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Carbazole	1.650	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Chrysene	1.680	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Fluoranthene	4.530	ug/kg-dry	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	N-Nitrosopiperidine	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Phenanthrene	2.660	ug/kg-dry	0.143
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Pyrene	3.490	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Surr: 2,4,6-Tribromophenol	47	%	10
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Surr: 2-Fluorobiphenyl	66	%	25
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Surr: 2-Fluorophenol	36	%	10
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Surr: 4-Terphenyl-d14	78	%	21
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Surr: Nitrobenzene-d5	50	%	21
AC09052	LM71	Little Miami Watershed	71	10/24/2012	18:40	\$PAH_WS	Surr: Phenol-d6	30	%	17
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Bromochloromethane	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Chloromethane	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Vinyl Chloride	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Bromomethane	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Chloroethane	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Trichlorofluoromethane	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Acrolein	0	mg/kg	175
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	1,1-Dichloroethene	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Acrylonitrile	0	mg/kg	175
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Methylene Chloride	0	mg/kg	35.0
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	1,1-Dichloroethane	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Chloroform	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	1,2-Dichloroethane	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	1,2-Dichloroethane-d4	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	1,1,1-Trichloroethane	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Carbon Tetrachloride	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Benzene	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Trichloroethene	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	2-Chloroethylvinylether	0	mg/kg	87.6
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	1,2-Dichloropropane	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Bromodichloromethane	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	cis-1,3-Dichloropropene	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	trans-1,3-Dichloropropene	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	1,1,2-Trichloroethane	0	mg/kg	8.8



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Dibromochloromethane	6.3J	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Bromoform	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	1,4-Dichlorobutane	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Tetrachloroethene	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Toluene	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Toluene-d8	102	mg/kg	76
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Chlorobenzene	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Ethylbenzene	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Bromofluorobenzene	93	mg/kg	67
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	1,3-Dichlorobenzene	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	1,4-Dichlorobenzene	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	1,2-Dichlorobenzene	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	2-Propanone	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	2-Butanone	0	mg/kg	8.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$624S	Dibromofluoromethane	97	mg/kg	71
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	pyridine	AA	mg/kg	0.286
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	2-Fluorophenol	35	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	aniline	AA	mg/kg	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Phenol-d6	32	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Phenol	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	2-Chlorophenol	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	n-decane	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	o-cresol	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	acetophenone	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Hexachloroethane	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Naphthalene-D8	50	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Nitrobenzene-d5	48	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		p-cresol	AA	mg/kg	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		Isophorone	AA	mg/kg	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		Naphthalene	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		Acenaphthene-d10	50	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		Acenaphthene	AA	mg/kg	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		Fluorene	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	2,4,6-Tribromophenol	41	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Hexachlorobenzene	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Pentachlorophenol	AA	mg/kg	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	n-octadecane	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Phenanthrene	1.440	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Anthracene	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	carbazole	1.870	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Fluoranthene	3.720	mg/kg	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Chrysene-d12	50	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Benzidine	AA	mg/kg	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Pyrene	2.890	mg/kg	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Benzo(a)anthracene	1.290	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Chrysene	1.780	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Perylene-D12	50	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Benzo(b)fluoranthene	1.570	mg/kg	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	Aldrin	0	ug/kg	0.571
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	Alpha-BHC	0	ug/kg	0.571
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	Beta-BHC	0	ug/kg	0.571
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	Delta-BHC	0	ug/kg	0.571
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	Gamma-BHC	0	ug/kg	0.571
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	Chlordane	0	ug/kg	14.3
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	4,4-DDD	0	ug/kg	0.571

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	4,4-DDT	0	ug/kg	0.571
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	4,4-DDE	0	ug/kg	0.571
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	Dieldrin	0	ug/kg	0.571
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	Endosulfan I	0	ug/kg	0.571
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	Endosulfan II	0	ug/kg	0.571
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	Endosulfan sulfate	0	ug/kg	0.571
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	Endrin	0	ug/kg	0.571
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	Endrin aldehyde	0	ug/kg	0.571
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	Heptachlor	0	ug/kg	0.571
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	Heptachlor epoxide	0	ug/kg	0.571
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	Toxaphene	0	ug/kg	28.6
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	PCB 1016	0	ug/kg	28.6
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	PCB 1221	0	ug/kg	14.3
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	PCB 1232	0	ug/kg	14.3
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	PCB 1242	0	ug/kg	14.3
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	PCB 1248	0	ug/kg	14.3
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	PCB 1254	0	ug/kg	14.3
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	PCB 1260	0	ug/kg	14.3
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	2,4,5,6-Tetrachloro-m-xylene	31.6	ug/kg	62
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PESTS	decachlorobiphenyl	56.8	ug/kg	58
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$ICP_WS	Arsenic_s	28.7	mg/kg	0.15
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$ICP_WS	Cadmium_s	0.56	mg/kg	0.03
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$ICP_WS	Calcium_s	56900	mg/kg	37.0
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$ICP_WS	Copper_s	52.3	mg/kg	0.52
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$ICP_WS	Iron_s	16100	mg/kg	74.0
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$ICP_WS	Lead_s	42.2	mg/kg	0.07
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$ICP_WS	Magnesium_s	11500	mg/kg	14.8
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$ICP_WS	Zinc_s	129	mg/kg	1.48
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Benz(a)anthracene	1.290	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Benzo(b)fluoranthene	1.570	ug/kg-dry	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Carbazole	1.870	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Chrysene	1.780	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Fluoranthene	3.720	ug/kg-dry	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Phenanthrene	1.440	ug/kg-dry	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Pyrene	2.890	ug/kg-dry	0.143
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Surr: 2,4,6-Tribromophenol	41	%	10
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Surr: 2-Fluorobiphenyl	65	%	25
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Surr: 2-Fluorophenol	35	%	10
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Surr: 4-Terphenyl-d14	88	%	21
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Surr: Nitrobenzene-d5	48	%	21
AC09053	LM73	Little Miami Watershed	73	10/24/2012	17:15	\$PAH_WS	Surr: Phenol-d6	32	%	17
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S	Bromochloromethane	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S	Chloromethane	0	mg/kg	7.8

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		Vinyl Chloride	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		Bromomethane	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		Chloroethane	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		Trichlorofluoromethane	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		Acrolein	0	mg/kg	155
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		1,1-Dichloroethene	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		Acrylonitrile	0	mg/kg	155
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		Methylene Chloride	0	mg/kg	31.1
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		Trans-1,2-Dichloroethene	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		1,1-Dichloroethane	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		Chloroform	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		2-Bromo,1-Chloropropane	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		1,2-Dichloroethane	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		1,2-Dichloroethane-d4	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		1,1,1-Trichloroethane	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		Carbon Tetrachloride	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		Benzene	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		Trichloroethene	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		2-Chloroethylvinylether	0	mg/kg	77.7
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		1,2-Dichloropropane	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		Bromodichloromethane	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		cis-1,3-Dichloropropene	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		trans-1,3-Dichloropropene	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		1,1,2-Trichloroethane	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		Dibromochloromethane	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		Bromoform	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		1,4-Dichlorobutane	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		Tetrachloroethene	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		1,1,2,2-Tetrachloroethane	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		Toluene	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		Toluene-d8	101	mg/kg	76
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		Chlorobenzene	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		Ethylbenzene	0	mg/kg	7.8



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		Bromofluorobenzene	99	mg/kg	67
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		1,3-Dichlorobenzene	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		1,4-Dichlorobenzene	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		1,2-Dichlorobenzene	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		2-Propanone	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		2-Butanone	0	mg/kg	7.8
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$624S		Dibromofluoromethane	98	mg/kg	71
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		pyridine	AA	mg/kg	0.286
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		n-nitrosodimethylamine	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		2-Fluorophenol	27	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		aniline	AA	mg/kg	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Phenol-d6	25	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Phenol	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		2-Chlorophenol	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		n-decane	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		o-cresol	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		acetophenone	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Hexachloroethane	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Naphthalene-D8	50	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Nitrobenzene-d5	44	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		p-cresol	AA	mg/kg	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Isophorone	AA	mg/kg	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	Naphthalene	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	1-Fluoronaphthalene	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	alpha terpineol	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	Hexachlorobutadiene	AA	mg/kg	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	Acenaphthene-d10	50	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	2,3 dichloroaniline	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	2-Chloronaphthalene	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	Dimethyl phthalate	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	Acenaphthylene	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	Acenaphthene	AA	mg/kg	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	2,4-Dinitrophenol	AA	mg/kg	0.286
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	4-Nitrophenol	AA	mg/kg	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	2,4-Dinitrotoluene	AA	mg/kg	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	Diethyl phthalate	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	Fluorene	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	Phenanthrene-D10	50	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	2,4,6-Tribromophenol	29	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	Hexachlorobenzene	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	Pentachlorophenol	AA	mg/kg	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	n-octadecane	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	Phenanthrene	1.320	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	Anthracene	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	carbazole	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Fluoranthene	2.850	mg/kg	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Chrysene-d12	50	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Benzidine	AA	mg/kg	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Pyrene	2.190	mg/kg	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Butyl benzyl phthalate	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Benzo(a)anthracene	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Chrysene	1.240	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Di-n-octyl phthalate	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Perylene-D12	50	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Benzo(b)fluoranthene	AA	mg/kg	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Benzo(k)fluoranthene	AA	mg/kg	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Benzo(a)pyrene	AA	mg/kg	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$625S		Benzo(ghi)perylene	AA	mg/kg	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS		Aldrin	AA	mg/kg	0.0057
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS		Alpha-BHC	AA	mg/kg	0.0057
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS		Beta-BHC	AA	mg/kg	0.0057
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS		Delta-BHC	AA	mg/kg	0.0057
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS		Gamma-BHC	AA	mg/kg	0.0057
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS		Chlordane	AA	mg/kg	0.0143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS		4,4-DDD	AA	mg/kg	0.0057
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS		4,4-DDT	AA	mg/kg	0.0057
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS		4,4-DDE	AA	mg/kg	0.0057
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS		Dieldrin	AA	mg/kg	0.0057
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS		Endosulfan I	AA	mg/kg	0.0057
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS		Endosulfan II	AA	mg/kg	0.0057
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS		Endosulfan sulfate	AA	mg/kg	0.0057
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS		Endrin	AA	mg/kg	0.0057
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS		Endrin aldehyde	AA	mg/kg	0.0057
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS		Heptachlor	AA	mg/kg	0.0057

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS	Heptachlor epoxide	AA	mg/kg	0.0057
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS	Toxaphene	AA	mg/kg	0.0057
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS	PCB 1016	AA	mg/kg	0.0057
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS	PCB 1221	AA	mg/kg	0.0057
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS	PCB 1232	AA	mg/kg	0.0057
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS	PCB 1242	AA	mg/kg	0.0057
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS	PCB 1248	AA	mg/kg	0.0057
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS	PCB 1254	AA	mg/kg	0.0057
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PESTS	PCB 1260	AA	mg/kg	0.0057
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$ICP_WS	Arsenic_s	11.3	mg/kg	0.14
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$ICP_WS	Cadmium_s	0.24	mg/kg	0.03
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$ICP_WS	Calcium_s	54500	mg/kg	36.1
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$ICP_WS	Copper_s	21.2	mg/kg	0.50
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$ICP_WS	Iron_s	10000	mg/kg	7.21
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$ICP_WS	Lead_s	48.8	mg/kg	0.07
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$ICP_WS	Magnesium_s	7400	mg/kg	14.4
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$ICP_WS	Zinc_s	98.4	mg/kg	1.44
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Chrysene	1.240	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Fluoranthene	2.850	ug/kg-dry	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	N-Nitrosopiperidine	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Phenanthrene	1.320	ug/kg-dry	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Pyrene	2.190	ug/kg-dry	0.143
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Surr: 2,4,6-Tribromophenol	29	%	10
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Surr: 2-Fluorobiphenyl	59	%	25
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Surr: 2-Fluorophenol	27	%	10
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Surr: 4-Terphenyl-d14	78	%	21
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Surr: Nitrobenzene-d5	44	%	21
AC09054	LM77	Little Miami Watershed	77	10/24/2012	16:45	\$PAH_WS	Surr: Phenol-d6	25	%	17
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Bromochloromethane	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Chloromethane	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Vinyl Chloride	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Bromomethane	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Chloroethane	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Trichlorofluoromethane	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Acrolein	0	mg/kg	120
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	1,1-Dichloroethene	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Acrylonitrile	0	mg/kg	120
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Methylene Chloride	0	mg/kg	24.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	1,1-Dichloroethane	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Chloroform	0	mg/kg	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	1,2-Dichloroethane	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	1,2-Dichloroethane-d4	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	1,1,1-Trichloroethane	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Carbon Tetrachloride	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Benzene	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Trichloroethene	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	2-Chloroethylvinylether	0	mg/kg	59.9
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	1,2-Dichloropropane	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Bromodichloromethane	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	cis-1,3-Dichloropropene	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	trans-1,3-Dichloropropene	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	1,1,2-Trichloroethane	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Dibromochloromethane	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Bromoform	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	1,4-Dichlorobutane	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Tetrachloroethene	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Toluene	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Toluene-d8	98	mg/kg	76
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Chlorobenzene	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Ethylbenzene	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Bromofluorobenzene	99	mg/kg	99
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	1,3-Dichlorobenzene	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	1,4-Dichlorobenzene	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	1,2-Dichlorobenzene	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	2-Propanone	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	2-Butanone	0	mg/kg	6.0
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$624S	Dibromofluoromethane	95	mg/kg	71
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	pyridine	AA	mg/kg	0.286
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	2-Fluorophenol	40	mg/kg	0.0857



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	aniline	AA	mg/kg	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	Phenol-d6	36	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	Phenol	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	2-Chlorophenol	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	n-decane	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	o-cresol	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	acetophenone	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	Hexachloroethane	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	Naphthalene-D8	50	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	Nitrobenzene-d5	53	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	p-cresol	AA	mg/kg	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	Nitrobenzene	AA	mg/kg	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	Isophorone	AA	mg/kg	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	Decafluorobiphenyl	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	2-Nitrophenol	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	2,4-Dimethylphenol	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	2,4-Dichlorophenol	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	Naphthalene	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	1-Fluoronaphthalene	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	alpha terpineol	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	Hexachlorobutadiene	AA	mg/kg	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	Acenaphthene-d10	50	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	2,3 dichloroaniline	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	2-Chloronaphthalene	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	Dimethyl phthalate	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		Acenaphthene	AA	mg/kg	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		Fluorene	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		2,4,6-Tribromophenol	41	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		n-octadecane	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		Phenanthrene	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		Anthracene	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		carbazole	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		Di-n-butyl phthalate	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		Fluoranthene	AA	mg/kg	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		Chrysene-d12	50	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		Benzidine	AA	mg/kg	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		Pyrene	AA	mg/kg	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		Butyl benzyl phthalate	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		Benzo(a)anthracene	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		Chrysene	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		Di-n-octyl phthalate	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S		Perylene-D12	50	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	Aldrin	AA	mg/kg	0.0006
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	Alpha-BHC	AA	mg/kg	0.0006
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	Beta-BHC	AA	mg/kg	0.0006
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	Delta-BHC	AA	mg/kg	0.0006
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	Gamma-BHC	AA	mg/kg	0.0006
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	Chlordane	AA	mg/kg	0.0143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	4,4-DDD	AA	mg/kg	0.0006
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	4,4-DDT	AA	mg/kg	0.0006
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	4,4-DDE	AA	mg/kg	0.0006
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	Dieldrin	AA	mg/kg	0.0006
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	Endosulfan I	AA	mg/kg	0.0006
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	Endosulfan II	AA	mg/kg	0.0006
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	Endosulfan sulfate	AA	mg/kg	0.0006
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	Endrin	AA	mg/kg	0.0006
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	Endrin aldehyde	AA	mg/kg	0.0006
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	Heptachlor	AA	mg/kg	0.0006
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	Heptachlor epoxide	AA	mg/kg	0.0006
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	Toxaphene	AA	mg/kg	0.0286
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	PCB 1016	AA	mg/kg	0.0143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	PCB 1221	AA	mg/kg	0.0143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	PCB 1232	AA	mg/kg	0.0143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	PCB 1242	AA	mg/kg	0.0143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	PCB 1248	AA	mg/kg	0.0143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	PCB 1254	AA	mg/kg	0.0143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PESTS	PCB 1260	AA	mg/kg	0.0143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$ICP_WS	Arsenic_s	2.48	mg/kg	0.14
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$ICP_WS	Cadmium_s	0.12	mg/kg	0.03

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$ICP_WS	Calcium_s	31300	mg/kg	34.4
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$ICP_WS	Copper_s	6.24	mg/kg	0.48
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$ICP_WS	Iron_s	7710	mg/kg	6.87
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$ICP_WS	Lead_s	6.40	mg/kg	0.07
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$ICP_WS	Magnesium_s	3690	mg/kg	13.7
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$ICP_WS	Zinc_s	26.4	mg/kg	1.37
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	N-Nitrosopiperidine	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Surr: 2,4,6-Tribromophenol	41	%	10
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Surr: 2-Fluorobiphenyl	67	%	25
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Surr: 2-Fluorophenol	40	%	10
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Surr: 4-Terphenyl-d14	83	%	21
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Surr: Nitrobenzene-d5	53	%	21
AC09055	LM14	Little Miami Watershed	14	10/24/2012	16:15	\$PAH_WS	Surr: Phenol-d6	36	%	17
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	Bromochloromethane	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	Chloromethane	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	Vinyl Chloride	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	Bromomethane	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	Chloroethane	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	Trichlorofluoromethane	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	Acrolein	0	mg/kg	147
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	1,1-Dichloroethene	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	Acrylonitrile	0	mg/kg	147
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	Methylene Chloride	0	mg/kg	29.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	1,1-Dichloroethane	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	Chloroform	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	1,2-Dichloroethane	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	1,2-Dichloroethane-d4	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	1,1,1-Trichloroethane	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	Carbon Tetrachloride	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	Benzene	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	Trichloroethene	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	2-Chloroethylvinylether	73.6	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	1,2-Dichloropropane	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	Bromodichloromethane	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S	cis-1,3-Dichloropropene	0	mg/kg	7.4

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S		trans-1,3-Dichloropropene	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S		1,1,2-Trichloroethane	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S		Dibromochloromethane	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S		Bromoform	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S		1,4-Dichlorobutane	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S		Tetrachloroethene	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S		1,1,2,2-Tetrachloroethane	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S		Toluene	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S		Toluene-d8	100	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S		Chlorobenzene	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S		Ethylbenzene	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S		Bromofluorobenzene	97	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S		1,3-Dichlorobenzene	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S		1,4-Dichlorobenzene	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S		1,2-Dichlorobenzene	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S		2-Propanone	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S		2-Butanone	0	mg/kg	7.4
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$624S		Dibromofluoromethane	95	mg/kg	71
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		pyridine	AA	mg/kg	0.286
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		n-nitrosodimethylamine	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		2-Fluorophenol	31	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		aniline	AA	mg/kg	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		Phenol-d6	26	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		Phenol	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		2-Chlorophenol	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		n-decane	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		o-cresol	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		acetophenone	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		Hexachloroethane	AA	mg/kg	0.0857



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		Naphthalene-D8	50	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		Nitrobenzene-d5	43	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		p-cresol	AA	mg/kg	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		Isophorone	AA	mg/kg	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		Naphthalene	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		Acenaphthene-d10	50	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		Acenaphthene	AA	mg/kg	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		Fluorene	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	2,4,6-Tribromophenol	35	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	Hexachlorobenzene	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	Pentachlorophenol	AA	mg/kg	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	n-octadecane	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	Phenanthrene	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	Anthracene	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	carbazole	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	Fluoranthene	AA	mg/kg	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	Chrysene-d12	50	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	Benzidine	AA	mg/kg	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	Pyrene	AA	mg/kg	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	Benzo(a)anthracene	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	Chrysene	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	Perylene-D12	50	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	Aldrin	AA	mg/kg	0.0006
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	Alpha-BHC	AA	mg/kg	0.0006
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	Beta-BHC	AA	mg/kg	0.0006
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	Delta-BHC	AA	mg/kg	0.0006
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	Gamma-BHC	AA	mg/kg	0.0006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	Chlordane	AA	mg/kg	0.0143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	4,4-DDD	AA	mg/kg	0.0006
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	4,4-DDT	AA	mg/kg	0.0006
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	4,4-DDE	AA	mg/kg	0.0006
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	Dieldrin	AA	mg/kg	0.0006
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	Endosulfan I	AA	mg/kg	0.0006
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	Endosulfan II	AA	mg/kg	0.0006
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	Endosulfan sulfate	AA	mg/kg	0.0006
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	Endrin	AA	mg/kg	0.0006
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	Endrin aldehyde	AA	mg/kg	0.0006
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	Heptachlor	AA	mg/kg	0.0006
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	Heptachlor epoxide	AA	mg/kg	0.0006
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	Toxaphene	AA	mg/kg	0.0286
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	PCB 1016	AA	mg/kg	0.0143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	PCB 1221	AA	mg/kg	0.0143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	PCB 1232	AA	mg/kg	0.0143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	PCB 1242	AA	mg/kg	0.0143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	PCB 1248	AA	mg/kg	0.0143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	PCB 1254	AA	mg/kg	0.0143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PESTS	PCB 1260	AA	mg/kg	0.0143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$ICP_WS	Arsenic_s	10.2	mg/kg	0.18
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$ICP_WS	Cadmium_s	0.46	mg/kg	0.04
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$ICP_WS	Calcium_s	46800	mg/kg	45.7
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$ICP_WS	Copper_s	45.3	mg/kg	0.64
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$ICP_WS	Iron_s	13200	mg/kg	9.15
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$ICP_WS	Lead_s	42.0	mg/kg	0.09
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$ICP_WS	Magnesium_s	15400	mg/kg	18.3
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$ICP_WS	Zinc_s	120	mg/kg	1.83
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Fluoranthene	1.680	ug/kg-dry	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Surr: 2,4,6-Tribromophenol	35	%	10
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Surr: 2-Fluorobiphenyl	58	%	25
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Surr: 2-Fluorophenol	31	%	10
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Surr: 4-Terphenyl-d14	79	%	21
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Surr: Nitrobenzene-d5	43	%	21
AC09056	LM91	Little Miami Watershed	91	10/24/2012	15:30	\$PAH_WS	Surr: Phenol-d6	26	%	17
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S	Bromochloromethane	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S	Chloromethane	0	mg/kg	6.8

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		Vinyl Chloride	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		Bromomethane	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		Chloroethane	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		Trichlorofluoromethane	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		Acrolein	0	mg/kg	136
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		1,1-Dichloroethene	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		Acrylonitrile	0	mg/kg	136
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		Methylene Chloride	0	mg/kg	27.2
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		Trans-1,2-Dichloroethene	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		1,1-Dichloroethane	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		Chloroform	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		2-Bromo,1-Chloropropane	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		1,2-Dichloroethane	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		1,2-Dichloroethane-d4	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		1,1,1-Trichloroethane	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		Carbon Tetrachloride	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		Benzene	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		Trichloroethene	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		2-Chloroethylvinylether	0	mg/kg	68.1
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		1,2-Dichloropropane	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		Bromodichloromethane	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		cis-1,3-Dichloropropene	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		trans-1,3-Dichloropropene	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		1,1,2-Trichloroethane	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		Dibromochloromethane	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		Bromoform	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		1,4-Dichlorobutane	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		Tetrachloroethene	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		1,1,2,2-Tetrachloroethane	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		Toluene	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		Toluene-d8	103	mg/kg	76
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		Chlorobenzene	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		Ethylbenzene	0	mg/kg	6.8

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Code	Analysis Code	Analysis Description	Results	Units	MDL
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		Bromofluorobenzene	94	mg/kg	67
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		1,3-Dichlorobenzene	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		1,4-Dichlorobenzene	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		1,2-Dichlorobenzene	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		2-Propanone	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		2-Butanone	0	mg/kg	6.8
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$624S		Dibromofluoromethane	94	mg/kg	71
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		pyridine	AA	mg/kg	0.286
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		n-nitrosodimethylamine	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		2-Fluorophenol	42	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		aniline	AA	mg/kg	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Phenol-d6	39	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Phenol	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		2-Chlorophenol	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		n-decane	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		o-cresol	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		acetophenone	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Hexachloroethane	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Naphthalene-D8	50	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Nitrobenzene-d5	53	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		p-cresol	AA	mg/kg	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Isophorone	AA	mg/kg	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Naphthalene	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Hexachlorobutadiene	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Acenaphthene-d10	50	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Acenaphthene	AA	mg/kg	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Fluorene	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		2,4,6-Tribromophenol	27	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		n-octadecane	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Phenanthrene	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Anthracene	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		carbazole	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Di-n-butyl phthalate	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Fluoranthene	AA	mg/kg	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Chrysene-d12	50	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Benzidine	AA	mg/kg	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Pyrene	AA	mg/kg	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Butyl benzyl phthalate	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Benzo(a)anthracene	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Chrysene	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Di-n-octyl phthalate	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Perylene-D12	50	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Benzo(b)fluoranthene	AA	mg/kg	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Benzo(k)fluoranthene	AA	mg/kg	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Benzo(a)pyrene	AA	mg/kg	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$625S		Benzo(ghi)perylene	AA	mg/kg	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS		Aldrin	AA	mg/kg	0.0006
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS		Alpha-BHC	AA	mg/kg	0.0006
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS		Beta-BHC	AA	mg/kg	0.0006
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS		Delta-BHC	AA	mg/kg	0.0006
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS		Gamma-BHC	AA	mg/kg	0.0006
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS		Chlordane	AA	mg/kg	0.0143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS		4,4-DDD	AA	mg/kg	0.0006
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS		4,4-DDT	AA	mg/kg	0.0006
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS		4,4-DDE	AA	mg/kg	0.0006
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS		Dieldrin	AA	mg/kg	0.0006
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS		Endosulfan I	AA	mg/kg	0.0006
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS		Endosulfan II	AA	mg/kg	0.0006
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS		Endosulfan sulfate	AA	mg/kg	0.0006
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS		Endrin	AA	mg/kg	0.0006
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS		Endrin aldehyde	AA	mg/kg	0.0006
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS		Heptachlor	AA	mg/kg	0.0006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS	Heptachlor epoxide	AA	mg/kg	0.0006
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS	Toxaphene	AA	mg/kg	0.0286
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS	PCB 1016	AA	mg/kg	0.0143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS	PCB 1221	AA	mg/kg	0.0143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS	PCB 1232	AA	mg/kg	0.0143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS	PCB 1242	AA	mg/kg	0.0143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS	PCB 1248	AA	mg/kg	0.0143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS	PCB 1254	AA	mg/kg	0.0143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PESTS	PCB 1260	AA	mg/kg	0.0143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$ICP_WS	Arsenic_s	5.91	mg/kg	0.12
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$ICP_WS	Cadmium_s	0.16	mg/kg	0.02
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$ICP_WS	Calcium_s	36300	mg/kg	30.2
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$ICP_WS	Copper_s	17.1	mg/kg	0.42
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$ICP_WS	Iron_s	15200	mg/kg	60.3
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$ICP_WS	Lead_s	15.0	mg/kg	0.06
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$ICP_WS	Magnesium_s	8990	mg/kg	12.1
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$ICP_WS	Zinc_s	44.9	mg/kg	1.21
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	N-Nitrosopiperidine	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Surr: 2,4,6-Tribromophenol	27	%	10
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Surr: 2-Fluorobiphenyl	71	%	25
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Surr: 2-Fluorophenol	42	%	10
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Surr: 4-Terphenyl-d14	86	%	21
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Surr: Nitrobenzene-d5	53	%	21
AC09057	LM101	Little Miami Watershed	101	10/24/2012	14:30	\$PAH_WS	Surr: Phenol-d6	39	%	17
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S	Bromochloromethane	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S	Chloromethane	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S	Vinyl Chloride	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S	Bromomethane	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S	Chloroethane	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S	Trichlorofluoromethane	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S	Acrolein	0	mg/kg	119
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S	1,1-Dichloroethene	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S	Acrylonitrile	0	mg/kg	119
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S	Methylene Chloride	0	mg/kg	23.9
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S	1,1-Dichloroethane	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S	Chloroform	0	mg/kg	6.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		2-Bromo,1-Chloropropane	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		1,2-Dichloroethane	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		1,2-Dichloroethane-d4	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		1,1,1-Trichloroethane	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		Carbon Tetrachloride	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		Benzene	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		Trichloroethene	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		2-Chloroethylvinylether	0	mg/kg	59.6
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		1,2-Dichloropropane	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		Bromodichloromethane	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		cis-1,3-Dichloropropene	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		trans-1,3-Dichloropropene	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		1,1,2-Trichloroethane	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		Dibromochloromethane	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		Bromoform	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		1,4-Dichlorobutane	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		Tetrachloroethene	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		1,1,2,2-Tetrachloroethane	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		Toluene	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		Toluene-d8	100	mg/kg	76
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		Chlorobenzene	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		Ethylbenzene	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		Bromofluorobenzene	97	mg/kg	67
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		1,3-Dichlorobenzene	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		1,4-Dichlorobenzene	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		1,2-Dichlorobenzene	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		2-Propanone	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		2-Butanone	0	mg/kg	6.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$624S		Dibromofluoromethane	95	mg/kg	71
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		pyridine	AA	mg/kg	0.286
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		n-nitrosodimethylamine	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		2-Fluorophenol	53	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		aniline	AA	mg/kg	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Phenol-d6	19	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Phenol	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		2-Chlorophenol	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		n-decane	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		o-cresol	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		acetophenone	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Hexachloroethane	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Naphthalene-D8	50	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Nitrobenzene-d5	42	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		p-cresol	AA	mg/kg	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Isophorone	AA	mg/kg	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Naphthalene	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Acenaphthene-d10	50	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Acenaphthene	AA	mg/kg	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Fluorene	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		2,4,6-Tribromophenol	28	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		n-octadecane	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Phenanthrene	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Anthracene	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		carbazole	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Di-n-butyl phthalate	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Fluoranthene	AA	mg/kg	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Chrysene-d12	50	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Benzidine	AA	mg/kg	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Pyrene	AA	mg/kg	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Butyl benzyl phthalate	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Benzo(a)anthracene	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Chrysene	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Di-n-octyl phthalate	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S		Perylene-D12	50	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	Aldrin	AA	mg/kg	0.0006
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	Alpha-BHC	AA	mg/kg	0.0006
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	Beta-BHC	AA	mg/kg	0.0006
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	Delta-BHC	AA	mg/kg	0.0006
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	Gamma-BHC	AA	mg/kg	0.0006
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	Chlordane	AA	mg/kg	0.0143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	4,4-DDD	AA	mg/kg	0.0006
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	4,4-DDT	AA	mg/kg	0.0006
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	4,4-DDE	AA	mg/kg	0.0006
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	Dieldrin	AA	mg/kg	0.0006
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	Endosulfan I	AA	mg/kg	0.0006
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	Endosulfan II	AA	mg/kg	0.0006
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	Endosulfan sulfate	AA	mg/kg	0.0006
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	Endrin	AA	mg/kg	0.0006
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	Endrin aldehyde	AA	mg/kg	0.0006
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	Heptachlor	AA	mg/kg	0.0006
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	Heptachlor epoxide	AA	mg/kg	0.0006
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	Toxaphene	AA	mg/kg	0.0286
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	PCB 1016	AA	mg/kg	0.0143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	PCB 1221	AA	mg/kg	0.0143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	PCB 1232	AA	mg/kg	0.0143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	PCB 1242	AA	mg/kg	0.0143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	PCB 1248	AA	mg/kg	0.0143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	PCB 1254	AA	mg/kg	0.0143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PESTS	PCB 1260	AA	mg/kg	0.0143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$ICP_WS	Arsenic_s	4.75	mg/kg	0.14
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$ICP_WS	Cadmium_s	0.17	mg/kg	0.03

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$ICP_WS	Calcium_s	39100	mg/kg	35.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$ICP_WS	Copper_s	13.1	mg/kg	0.49
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$ICP_WS	Iron_s	18000	mg/kg	70.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$ICP_WS	Lead_s	13.4	mg/kg	0.07
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$ICP_WS	Magnesium_s	8640	mg/kg	14.0
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$ICP_WS	Zinc_s	47.5	mg/kg	1.40
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Surr: 2,4,6-Tribromophenol	28	%	10
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Surr: 2-Fluorobiphenyl	66	%	25
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Surr: 2-Fluorophenol	53	%	10
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Surr: 4-Terphenyl-d14	79	%	21
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Surr: Nitrobenzene-d5	42	%	21
AC09058	LM70	Little Miami Watershed	70	10/24/2012	13:30	\$PAH_WS	Surr: Phenol-d6	19	%	17
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Bromochloromethane	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Chloromethane	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Vinyl Chloride	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Bromomethane	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Chloroethane	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Trichlorofluoromethane	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Acrolein	0	mg/kg	139
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	1,1-Dichloroethene	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Acrylonitrile	0	mg/kg	139
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Methylene Chloride	0	mg/kg	27.9
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	1,1-Dichloroethane	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Chloroform	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	1,2-Dichloroethane	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	1,2-Dichloroethane-d4	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	1,1,1-Trichloroethane	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Carbon Tetrachloride	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Benzene	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Trichloroethene	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	2-Chloroethylvinylether	0	mg/kg	69.7
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	1,2-Dichloropropane	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Bromodichloromethane	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	cis-1,3-Dichloropropene	0	mg/kg	7.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Analysis Code	Analysis Description	Results	Units	MDL
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	trans-1,3-Dichloropropene	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	1,1,2-Trichloroethane	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Dibromochloromethane	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Bromoform	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	1,4-Dichlorobutane	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Tetrachloroethene	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Toluene	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Toluene-d8	109	mg/kg	76
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Chlorobenzene	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Ethylbenzene	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Bromofluorobenzene	88	mg/kg	67
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	1,3-Dichlorobenzene	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	1,4-Dichlorobenzene	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	1,2-Dichlorobenzene	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	2-Propanone	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	2-Butanone	0	mg/kg	7.0
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$624S	Dibromofluoromethane	98	mg/kg	71
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	pyridine	AA	mg/kg	0.286
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	2-Fluorophenol	41	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	aniline	AA	mg/kg	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Phenol-d6	35	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Phenol	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	2-Chlorophenol	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	n-decane	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	o-cresol	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	acetophenone	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Hexachloroethane	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		Naphthalene-D8	50	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		Nitrobenzene-d5	46	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		p-cresol	AA	mg/kg	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		Isophorone	AA	mg/kg	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		Naphthalene	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		Acenaphthene-d10	50	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		Acenaphthene	AA	mg/kg	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		Fluorene	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	2,4,6-Tribromophenol	26	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Hexachlorobenzene	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Pentachlorophenol	AA	mg/kg	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	n-octadecane	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Phenanthrene	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Anthracene	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	carbazole	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Fluoranthene	AA	mg/kg	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Chrysene-d12	50	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Benzidine	AA	mg/kg	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Pyrene	AA	mg/kg	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Benzo(a)anthracene	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Chrysene	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Perylene-D12	50	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	Aldrin	AA	mg/kg	0.0006
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	Alpha-BHC	AA	mg/kg	0.0006
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	Beta-BHC	AA	mg/kg	0.0006
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	Delta-BHC	AA	mg/kg	0.0006
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	Gamma-BHC	AA	mg/kg	0.0006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	Chlordane	AA	mg/kg	0.0143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	4,4-DDD	AA	mg/kg	0.0006
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	4,4-DDT	AA	mg/kg	0.0006
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	4,4-DDE	AA	mg/kg	0.0006
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	Dieldrin	AA	mg/kg	0.0006
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	Endosulfan I	AA	mg/kg	0.0006
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	Endosulfan II	AA	mg/kg	0.0006
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	Endosulfan sulfate	AA	mg/kg	0.0006
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	Endrin	AA	mg/kg	0.0006
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	Endrin aldehyde	AA	mg/kg	0.0006
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	Heptachlor	AA	mg/kg	0.0006
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	Heptachlor epoxide	AA	mg/kg	0.0006
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	Toxaphene	AA	mg/kg	0.0286
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	PCB 1016	AA	mg/kg	0.0143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	PCB 1221	AA	mg/kg	0.0143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	PCB 1232	AA	mg/kg	0.0143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	PCB 1242	AA	mg/kg	0.0143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	PCB 1248	AA	mg/kg	0.0143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	PCB 1254	AA	mg/kg	0.0143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PESTS	PCB 1260	AA	mg/kg	0.0143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$ICP_WS	Arsenic_s	5.19	mg/kg	0.13
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$ICP_WS	Cadmium_s	0.15	mg/kg	0.03
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$ICP_WS	Calcium_s	51900	mg/kg	33.6
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$ICP_WS	Copper_s	6.14	mg/kg	0.47
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$ICP_WS	Iron_s	10700	mg/kg	6.72
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$ICP_WS	Lead_s	8.99	mg/kg	0.07
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$ICP_WS	Magnesium_s	9660	mg/kg	13.4
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$ICP_WS	Zinc_s	29.8	mg/kg	1.34
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Surr: 2,4,6-Tribromophenol	26	%	10
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Surr: 2-Fluorobiphenyl	63	%	25
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Surr: 2-Fluorophenol	41	%	10
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Surr: 4-Terphenyl-d14	21	%	21
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Surr: Nitrobenzene-d5	46	%	21
AC09149	LM59	Little Miami Watershed	59	10/25/2012	16:00	\$PAH_WS	Surr: Phenol-d6	35	%	17
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Bromochloromethane	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Chloromethane	0	mg/kg	7.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Vinyl Chloride	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Bromomethane	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Chloroethane	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Trichlorofluoromethane	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Acrolein	0	mg/kg	140
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	1,1-Dichloroethene	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Acrylonitrile	0	mg/kg	140
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Methylene Chloride	0	mg/kg	28.1
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	1,1-Dichloroethane	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Chloroform	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	1,2-Dichloroethane	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	1,2-Dichloroethane-d4	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	1,1,1-Trichloroethane	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Carbon Tetrachloride	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Benzene	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Trichloroethene	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	2-Chloroethylvinylether	0	mg/kg	70.2
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	1,2-Dichloropropane	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Bromodichloromethane	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	cis-1,3-Dichloropropene	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	trans-1,3-Dichloropropene	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	1,1,2-Trichloroethane	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Dibromochloromethane	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Bromoform	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	1,4-Dichlorobutane	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Tetrachloroethene	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Toluene	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Toluene-d8	103	mg/kg	76
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Chlorobenzene	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Ethylbenzene	0	mg/kg	7.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Analysis Code	Analysis Description	Results	Units	MDL
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Bromofluorobenzene	97	mg/kg	67
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	1,3-Dichlorobenzene	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	1,4-Dichlorobenzene	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	1,2-Dichlorobenzene	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	2-Propanone	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	2-Butanone	0	mg/kg	7.0
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$624S	Dibromofluoromethane	98	mg/kg	71
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	pyridine	AA	mg/kg	0.286
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	2-Fluorophenol	31	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	aniline	AA	mg/kg	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Phenol-d6	26	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Phenol	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	2-Chlorophenol	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	n-decane	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	o-cresol	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	acetophenone	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Hexachloroethane	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Naphthalene-D8	50	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Nitrobenzene-d5	35	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	p-cresol	AA	mg/kg	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Nitrobenzene	AA	mg/kg	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Isophorone	AA	mg/kg	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Decafluorobiphenyl	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	2-Nitrophenol	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	2,4-Dimethylphenol	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	2,4-Dichlorophenol	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	1,2,4-Trichlorobenzene	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Naphthalene	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	1-Fluoronaphthalene	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	alpha terpineol	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Hexachlorobutadiene	AA	mg/kg	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Acenaphthene-d10	50	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	2,3 dichloroaniline	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	2-Chloronaphthalene	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Dimethyl phthalate	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Acenaphthylene	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Acenaphthene	AA	mg/kg	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	2,4-Dinitrophenol	AA	mg/kg	0.286
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	4-Nitrophenol	AA	mg/kg	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	2,4-Dinitrotoluene	AA	mg/kg	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Diethyl phthalate	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Fluorene	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Phenanthrene-D10	50	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	2,4,6-Tribromophenol	15	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Hexachlorobenzene	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Pentachlorophenol	AA	mg/kg	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	n-octadecane	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Phenanthrene	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Anthracene	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	carbazole	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Fluoranthene	1.080	mg/kg	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Chrysene-d12	50	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Benzidine	AA	mg/kg	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Pyrene	AA	mg/kg	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Benzo(a)anthracene	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Chrysene	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Perylene-D12	50	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	Aldrin	AA	mg/kg	0.0006
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	Alpha-BHC	AA	mg/kg	0.0006
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	Beta-BHC	AA	mg/kg	0.0006
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	Delta-BHC	AA	mg/kg	0.0006
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	Gamma-BHC	AA	mg/kg	0.0006
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	Chlordane	AA	mg/kg	0.0143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	4,4-DDD	AA	mg/kg	0.0006
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	4,4-DDT	AA	mg/kg	0.0006
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	4,4-DDE	AA	mg/kg	0.0006
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	Dieldrin	AA	mg/kg	0.0006
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	Endosulfan I	AA	mg/kg	0.0006
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	Endosulfan II	AA	mg/kg	0.0006
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	Endosulfan sulfate	AA	mg/kg	0.0006
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	Endrin	AA	mg/kg	0.0006
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	Endrin aldehyde	AA	mg/kg	0.0006
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	Heptachlor	AA	mg/kg	0.0006

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	Heptachlor epoxide	AA	mg/kg	0.0006
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	Toxaphene	AA	mg/kg	0.0286
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	PCB 1016	AA	mg/kg	0.0143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	PCB 1221	AA	mg/kg	0.0143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	PCB 1232	AA	mg/kg	0.0143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	PCB 1242	AA	mg/kg	0.0143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	PCB 1248	AA	mg/kg	0.0143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	PCB 1254	AA	mg/kg	0.0143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PESTS	PCB 1260	AA	mg/kg	0.0143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$ICP_WS	Arsenic_s	2.69	mg/kg	0.14
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$ICP_WS	Cadmium_s	0.10	mg/kg	0.03
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$ICP_WS	Calcium_s	22200	mg/kg	33.8
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$ICP_WS	Copper_s	4.66	mg/kg	0.47
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$ICP_WS	Iron_s	9180	mg/kg	6.76
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$ICP_WS	Lead_s	7.12	mg/kg	0.07
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$ICP_WS	Magnesium_s	3840	mg/kg	13.5
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$ICP_WS	Zinc_s	23.3	mg/kg	1.35
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Fluoranthene	1.080	ug/kg-dry	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	N-Nitrosopiperidine	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Surr: 2,4,6-Tribromophenol	15	%	10
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Surr: 2-Fluorobiphenyl	50	%	25
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Surr: 2-Fluorophenol	31	%	10
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Surr: 4-Terphenyl-d14	AA	%	21
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Surr: Nitrobenzene-d5	35	%	21
AC09150	LM58	Little Miami Watershed	58	10/25/2012	15:40	\$PAH_WS	Surr: Phenol-d6	26	%	17
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Bromochloromethane	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Chloromethane	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Vinyl Chloride	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Bromomethane	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Chloroethane	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Trichlorofluoromethane	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Acrolein	0	mg/kg	247
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	1,1-Dichloroethene	0	mg/kg	247
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Acrylonitrile	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Methylene Chloride	0	mg/kg	49.4
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	1,1-Dichloroethane	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Chloroform	0	mg/kg	12.3

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Analysis Code	Analysis Description	Results	Units	MDL
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	1,2-Dichloroethane	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	1,2-Dichloroethane-d4	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	1,1,1-Trichloroethane	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Carbon Tetrachloride	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Benzene	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Trichloroethene	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	2-Chloroethylvinylether	0	mg/kg	123
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	1,2-Dichloropropane	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Bromodichloromethane	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	cis-1,3-Dichloropropene	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	trans-1,3-Dichloropropene	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	1,1,2-Trichloroethane	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Dibromochloromethane	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Bromoform	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	1,4-Dichlorobutane	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Tetrachloroethene	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Toluene	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Toluene-d8	104	mg/kg	76
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Chlorobenzene	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Ethylbenzene	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Bromofluorobenzene	94	mg/kg	67
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	1,3-Dichlorobenzene	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	1,4-Dichlorobenzene	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	1,2-Dichlorobenzene	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	2-Propanone	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	2-Butanone	0	mg/kg	12.3
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$624S	Dibromofluoromethane	96	mg/kg	71
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S	1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S	pyridine	AA	mg/kg	0.286
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S	2-Fluorophenol	42	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		aniline	AA	mg/kg	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Phenol-d6	39	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Phenol	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		2-Chlorophenol	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		n-decane	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		o-cresol	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		acetophenone	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Hexachloroethane	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Naphthalene-D8	50	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Nitrobenzene-d5	45	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		p-cresol	AA	mg/kg	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Isophorone	AA	mg/kg	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Naphthalene	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Acenaphthene-d10	50	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Acenaphthene	AA	mg/kg	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		4-Nitrophenol	AA	mg/kg	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Diethyl phthalate	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Fluorene	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		2,4,6-Tribromophenol	29	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Hexachlorobenzene	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Pentachlorophenol	AA	mg/kg	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		n-octadecane	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Phenanthrene	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Anthracene	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		carbazole	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Di-n-butyl phthalate	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Fluoranthene	AA	mg/kg	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Chrysene-d12	50	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Benzidine	AA	mg/kg	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Pyrene	AA	mg/kg	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Butyl benzyl phthalate	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Benzo(a)anthracene	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Chrysene	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Di-n-octyl phthalate	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S		Perylene-D12	50	mg/kg	0.0857



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	Aldrin	AA	mg/kg	0.0006
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	Alpha-BHC	AA	mg/kg	0.0006
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	Beta-BHC	AA	mg/kg	0.0006
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	Delta-BHC	AA	mg/kg	0.0006
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	Gamma-BHC	AA	mg/kg	0.0006
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	Chlordane	AA	mg/kg	0.0143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	4,4-DDD	AA	mg/kg	0.0006
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	4,4-DDT	AA	mg/kg	0.0006
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	4,4-DDE	AA	mg/kg	0.0006
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	Dieldrin	AA	mg/kg	0.0006
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	Endosulfan I	AA	mg/kg	0.0006
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	Endosulfan II	AA	mg/kg	0.0006
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	Endosulfan sulfate	AA	mg/kg	0.0006
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	Endrin	AA	mg/kg	0.0006
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	Endrin aldehyde	AA	mg/kg	0.0006
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	Heptachlor	AA	mg/kg	0.0006
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	Heptachlor epoxide	AA	mg/kg	0.0006
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	Toxaphene	AA	mg/kg	0.0286
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	PCB 1016	AA	mg/kg	0.0143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	PCB 1221	AA	mg/kg	0.0143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	PCB 1232	AA	mg/kg	0.0143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	PCB 1242	AA	mg/kg	0.0143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	PCB 1248	AA	mg/kg	0.0143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	PCB 1254	AA	mg/kg	0.0143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PESTS	PCB 1260	AA	mg/kg	0.0143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$ICP_WS	Arsenic_s	7.41	mg/kg	0.15
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$ICP_WS	Cadmium_s	0.31	mg/kg	0.03

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$ICP_WS	Calcium_s	46700	mg/kg	37.7
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$ICP_WS	Copper_s	13.9	mg/kg	0.53
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$ICP_WS	Iron_s	20000	mg/kg	75.4
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$ICP_WS	Lead_s	21.8	mg/kg	0.08
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$ICP_WS	Magnesium_s	6690	mg/kg	15.1
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$ICP_WS	Zinc_s	38.5	mg/kg	1.51
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Surr: 2,4,6-Tribromophenol	29	%	10
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Surr: 2-Fluorobiphenyl	68	%	25
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Surr: 2-Fluorophenol	42	%	10
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Surr: 4-Terphenyl-d14	24	%	21
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Surr: Nitrobenzene-d5	45	%	21
AC09151	LM66	Little Miami Watershed	66	10/25/2012	14:20	\$PAH_WS	Surr: Phenol-d6	39	%	17
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Bromochloromethane	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Chloromethane	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Vinyl Chloride	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Bromomethane	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Chloroethane	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Trichlorofluoromethane	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Acrolein	0	mg/kg	155
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	1,1-Dichloroethene	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Acrylonitrile	0	mg/kg	155
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Methylene Chloride	0	mg/kg	31.0
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Trans-1,2-Dichloroethene	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	1,1-Dichloroethane	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Chloroform	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	2-Bromo,1-Chloropropane	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	1,2-Dichloroethane	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	1,2-Dichloroethane-d4	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	1,1,1-Trichloroethane	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Carbon Tetrachloride	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Benzene	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Trichloroethene	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	2-Chloroethylvinylether	0	mg/kg	77.6
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	1,2-Dichloropropane	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Bromodichloromethane	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	cis-1,3-Dichloropropene	0	mg/kg	7.8

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	trans-1,3-Dichloropropene	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	1,1,2-Trichloroethane	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Dibromochloromethane	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Bromoform	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	1,4-Dichlorobutane	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Tetrachloroethene	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	1,1,2,2-Tetrachloroethane	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Toluene	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Toluene-d8	102	mg/kg	76
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Chlorobenzene	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Ethylbenzene	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Bromofluorobenzene	97	mg/kg	67
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	1,3-Dichlorobenzene	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	1,4-Dichlorobenzene	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	1,2-Dichlorobenzene	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	2-Propanone	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	2-Butanone	0	mg/kg	7.8
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$624S	Dibromofluoromethane	97	mg/kg	71
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	pyridine	AA	mg/kg	0.286
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	2-Fluorophenol	32	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	aniline	AA	mg/kg	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Phenol-d6	34	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Phenol	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	2-Chlorophenol	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	n-decane	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	o-cresol	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	acetophenone	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Hexachloroethane	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		Naphthalene-D8	50	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		Nitrobenzene-d5	38	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		p-cresol	AA	mg/kg	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		Nitrobenzene	AA	mg/kg	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		Isophorone	AA	mg/kg	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		Decafluorobiphenyl	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		2-Nitrophenol	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		2,4-Dimethylphenol	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		2,4-Dichlorophenol	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		1,2,4-Trichlorobenzene	AA	mg/kg	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		Naphthalene	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		1-Fluoronaphthalene	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		alpha terpineol	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		Hexachlorobutadiene	AA	mg/kg	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		Acenaphthene-d10	50	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		2,3 dichloroaniline	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		2-Chloronaphthalene	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		Dimethyl phthalate	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		Acenaphthylene	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		Acenaphthene	AA	mg/kg	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		2,4-Dinitrophenol	AA	mg/kg	0.286
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		4-Nitrophenol	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		2,4-Dinitrotoluene	AA	mg/kg	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		Diethyl phthalate	AA	mg/kg	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		Fluorene	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		Phenanthrene-D10	50	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S		4,6-Dinitro-o-cresol	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	2,4,6-Tribromophenol	27	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Hexachlorobenzene	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Pentachlorophenol	AA	mg/kg	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	n-octadecane	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Phenanthrene	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Anthracene	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	carbazole	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Fluoranthene	AA	mg/kg	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Chrysene-d12	50	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Benzidine	AA	mg/kg	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Pyrene	AA	mg/kg	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Butyl benzyl phthalate	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Benzo(a)anthracene	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Chrysene	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Di-n-octyl phthalate	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Perylene-D12	50	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Benzo(b)fluoranthene	AA	mg/kg	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Benzo(k)fluoranthene	AA	mg/kg	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Benzo(a)pyrene	AA	mg/kg	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$625S	Benzo(ghi)perylene	AA	mg/kg	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	Aldrin	AA	mg/kg	0.0006
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	Alpha-BHC	AA	mg/kg	0.0006
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	Beta-BHC	AA	mg/kg	0.0006
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	Delta-BHC	AA	mg/kg	0.0006
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	Gamma-BHC	AA	mg/kg	0.0006



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	Chlordane	AA	mg/kg	0.0143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	4,4-DDD	AA	mg/kg	0.0006
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	4,4-DDT	AA	mg/kg	0.0006
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	4,4-DDE	AA	mg/kg	0.0006
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	Dieldrin	AA	mg/kg	0.0006
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	Endosulfan I	AA	mg/kg	0.0006
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	Endosulfan II	AA	mg/kg	0.0006
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	Endosulfan sulfate	AA	mg/kg	0.0006
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	Endrin	AA	mg/kg	0.0006
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	Endrin aldehyde	AA	mg/kg	0.0006
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	Heptachlor	AA	mg/kg	0.0006
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	Heptachlor epoxide	AA	mg/kg	0.0006
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	Toxaphene	AA	mg/kg	0.0286
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	PCB 1016	AA	mg/kg	0.0143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	PCB 1221	AA	mg/kg	0.0143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	PCB 1232	AA	mg/kg	0.0143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	PCB 1242	AA	mg/kg	0.0143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	PCB 1248	AA	mg/kg	0.0143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	PCB 1254	AA	mg/kg	0.0143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PESTS	PCB 1260	AA	mg/kg	0.0143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$ICP_WS	Arsenic_s	5.82	mg/kg	0.14
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$ICP_WS	Cadmium_s	0.16	mg/kg	0.03
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$ICP_WS	Calcium_s	55000	mg/kg	34.7
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$ICP_WS	Copper_s	11.9	mg/kg	0.49
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$ICP_WS	Iron_s	20400	mg/kg	69.4
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$ICP_WS	Lead_s	17.3	mg/kg	0.07
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$ICP_WS	Magnesium_s	10600	mg/kg	13.9
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$ICP_WS	Zinc_s	38.8	mg/kg	1.39
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Fluoranthene	AA	ug/kg-dry	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	N-Nitrospiperidine	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Surr: 2,4,6-Tribromophenol	27	%	10
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Surr: 2-Fluorobiphenyl	64	%	25
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Surr: 2-Fluorophenol	32	%	10
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Surr: 4-Terphenyl-d14	24	%	21
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Surr: Nitrobenzene-d5	38	%	21
AC09152	LM67	Little Miami Watershed	67	10/25/2012	14:00	\$PAH_WS	Surr: Phenol-d6	34	%	17
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S	Bromochloromethane	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S	Chloromethane	0	mg/kg	11.1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		Vinyl Chloride	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		Bromomethane	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		Chloroethane	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		Trichlorofluoromethane	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		Acrolein	0	mg/kg	222
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		1,1-Dichloroethene	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		Acrylonitrile	0	mg/kg	222
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		Methylene Chloride	0	mg/kg	44.3
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		Trans-1,2-Dichloroethene	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		1,1-Dichloroethane	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		Chloroform	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		2-Bromo,1-Chloropropane	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		1,2-Dichloroethane	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		1,2-Dichloroethane-d4	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		1,1,1-Trichloroethane	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		Carbon Tetrachloride	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		Benzene	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		Trichloroethene	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		2-Chloroethylvinylether	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		1,2-Dichloropropane	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		Bromodichloromethane	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		cis-1,3-Dichloropropene	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		trans-1,3-Dichloropropene	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		1,1,2-Trichloroethane	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		Dibromochloromethane	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		Bromoform	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		1,4-Dichlorobutane	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		Tetrachloroethene	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		1,1,2,2-Tetrachloroethane	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		Toluene	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		Toluene-d8	104	mg/kg	76
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		Chlorobenzene	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S		Ethylbenzene	0	mg/kg	11.1

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S	Bromofluorobenzene	94	mg/kg	67
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S	1,3-Dichlorobenzene	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S	1,4-Dichlorobenzene	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S	1,2-Dichlorobenzene	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S	2-Propanone	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S	2-Butanone	0	mg/kg	11.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$624S	Dibromofluoromethane	97	mg/kg	71
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	1,4-Dichlorobenzene-D4	50	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	pyridine	AA	mg/kg	0.286
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	n-nitrosodimethylamine	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	2-Fluorophenol	37	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	aniline	AA	mg/kg	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Phenol-d6	41	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Phenol	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Bis(2-Chloroethyl)ether	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	2-Chlorophenol	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	n-decane	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Bis(2-chloroisopropyl)ether	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	o-cresol	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	acetophenone	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	n-nitrosodi-n-propylamine	AA	mg/kg	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Hexachloroethane	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Naphthalene-D8	50	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Nitrobenzene-d5	44	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	p-cresol	AA	mg/kg	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Nitrobenzene	AA	mg/kg	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Isophorone	AA	mg/kg	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Decafluorobiphenyl	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	2-Nitrophenol	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	2,4-Dimethylphenol	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	bis(2-Chloroethoxy)methane	AA	mg/kg	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	2,4-Dichlorophenol	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	1,2,4-Trichlorobenzene	AA	mg/kg	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Naphthalene	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	1-Fluoronaphthalene	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	alpha terpineol	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Hexachlorobutadiene	AA	mg/kg	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	4-Chloro-3-methylphenol	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Acenaphthene-d10	50	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Hexachlorocyclopentadiene	AA	mg/kg	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	2,3 dichloroaniline	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	2,4,6-Trichlorophenol	AA	mg/kg	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	2-Chloronaphthalene	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Dimethyl phthalate	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Acenaphthylene	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	2,6-Dinitrotoluene	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Acenaphthene	AA	mg/kg	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	2,4-Dinitrophenol	AA	mg/kg	0.286
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	4-Nitrophenol	AA	mg/kg	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	2,4-Dinitrotoluene	AA	mg/kg	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Diethyl phthalate	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	4-Chlorophenyl phenyl ether	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Fluorene	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Phenanthrene-D10	50	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	4,6-Dinitro-o-cresol	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	n-nitrosodiphenylamine	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	1,2-Diphenylhydrazine	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	2,4,6-Tribromophenol	29	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	4-Bromophenyl phenyl ether	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Hexachlorobenzene	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Pentachlorophenol	AA	mg/kg	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	n-octadecane	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Phenanthrene	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Anthracene	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	carbazole	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S	Di-n-butyl phthalate	AA	mg/kg	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Code	Analysis Code	Analysis Description	Results	Units	MDL
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S		Fluoranthene	AA	mg/kg	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S		Chrysene-d12	50	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S		Benzidine	AA	mg/kg	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S		Pyrene	AA	mg/kg	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S		Butyl benzyl phthalate	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S		3,3-Dichlorobenzidine	AA	mg/kg	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S		Benzo(a)anthracene	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S		Chrysene	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S		bis(2-ethylhexyl)phthalate	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S		Di-n-octyl phthalate	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S		Perylene-D12	50	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S		Benzo(b)fluoranthene	AA	mg/kg	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S		Benzo(k)fluoranthene	AA	mg/kg	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S		Benzo(a)pyrene	AA	mg/kg	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S		Indeno(1,2,3-cd)pyrene	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S		Dibenzo(a,h)anthracene	AA	mg/kg	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$625S		Benzo(ghi)perylene	AA	mg/kg	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS		Aldrin	AA	mg/kg	0.0006
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS		Alpha-BHC	AA	mg/kg	0.0006
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS		Beta-BHC	AA	mg/kg	0.0006
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS		Delta-BHC	AA	mg/kg	0.0006
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS		Gamma-BHC	AA	mg/kg	0.0006
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS		Chlordane	AA	mg/kg	0.0143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS		4,4-DDD	AA	mg/kg	0.0006
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS		4,4-DDT	AA	mg/kg	0.0006
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS		4,4-DDE	AA	mg/kg	0.0006
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS		Dieldrin	AA	mg/kg	0.0006
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS		Endosulfan I	AA	mg/kg	0.0006
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS		Endosulfan II	AA	mg/kg	0.0006
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS		Endosulfan sulfate	AA	mg/kg	0.0006
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS		Endrin	AA	mg/kg	0.0006
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS		Endrin aldehyde	AA	mg/kg	0.0006
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS		Heptachlor	AA	mg/kg	0.0006



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS	Heptachlor epoxide	AA	mg/kg	0.0006
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS	Toxaphene	AA	mg/kg	0.0286
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS	PCB 1016	AA	mg/kg	0.0143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS	PCB 1221	AA	mg/kg	0.0143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS	PCB 1232	AA	mg/kg	0.0143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS	PCB 1242	AA	mg/kg	0.0143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS	PCB 1248	AA	mg/kg	0.0143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS	PCB 1254	AA	mg/kg	0.0143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PESTS	PCB 1260	AA	mg/kg	0.0143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$ICP_WS	Arsenic_s	5.44	mg/kg	0.18
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$ICP_WS	Cadmium_s	0.11	mg/kg	0.04
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$ICP_WS	Calcium_s	28100	mg/kg	45.3
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$ICP_WS	Copper_s	21.0	mg/kg	0.63
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$ICP_WS	Iron_s	26200	mg/kg	90.5
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$ICP_WS	Lead_s	31.6	mg/kg	0.09
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$ICP_WS	Magnesium_s	4540	mg/kg	18.1
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$ICP_WS	Zinc_s	65.6	mg/kg	1.81
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	1,2,4,5-Tetrachlorobenzene	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	1,2,4-Trichlorobenzene	AA	ug/kg-dry	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	1,2-Dichlorobenzene	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	1,3-Dichlorobenzene	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	1,4-dichlorobenzene	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	1-Chloronaphthalene	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	1-Naphthylamine	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	2,3,4,6-Tetrachlorophenol	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	2,4,5-Trichlorophenol	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	2,4,6-Trichlorophenol	AA	ug/kg-dry	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	2,4-Dichlorophenol	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	2,4-Dimethylphenol	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	2,4-Dinitrophenol	AA	ug/kg-dry	0.286
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	2,4-Dinitrotoluene	AA	ug/kg-dry	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	2,6-Dichlorophenol	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	2,6-Dinitrotoluene	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	2-Chloronaphthalene	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	2-Chlorophenol	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	2-Methylnaphthalene	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	2-Methylphenol	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	2-Naphthylamine	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	2-Nitroaniline	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	2-Nitrophenol	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	2-Picoline	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	3&4-Methylphenol	AA	ug/kg-dry	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	3,3'-Dichlorobenzidine	AA	ug/kg-dry	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	3-Methylcholanthrene	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	3-Nitroaniline	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	4,6-Dinitro-2methylphenol	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	4-Aminobiphenyl	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	4-Bromophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	4-Chloro-3-methylphenol	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	4-Chloroaniline	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	4-Chlorophenyl phenyl ether	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	4-Nitroaniline	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	4-Nitrophenol	AA	ug/kg-dry	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	7,12-Dimethylbenz(a)anthracene	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Acenaphthene	AA	ug/kg-dry	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Acenaphthylene	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Acetophenone	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Aniline	AA	ug/kg-dry	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Anthracene	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Azobenzene	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Benz(a)anthracene	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Benzidine	AA	ug/kg-dry	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Benzo(a)pyrene	AA	ug/kg-dry	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Benzo(b)fluoranthene	AA	ug/kg-dry	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Benzo(g,h,i)perylene	AA	ug/kg-dry	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Benzo(k)fluoranthene	AA	ug/kg-dry	0.143

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Benzoic Acid	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Benzyl alcohol	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Bis(2-chloroethoxy)methane	AA	ug/kg-dry	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Bis(2-chlorethyl)ether	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Bis(2-chloroisopropyl)ether	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Bis(2-ethylhexyl)phthalate	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Butyl benzyl phthalate	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Carbazole	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Chrysene	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Di-n-butyl phthalate	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Di-n-octyl phthalate	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Dibenz(a,h)anthracene	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Dibenz(a,j)acridine	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Dibenzofuran	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Diethyl phthalate	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Dimethyl phthalate	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Dimethylamine	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Diphenylamine	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Ethyl methanesulfonate	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Fluoranthene	1.990	ug/kg-dry	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Fluorene	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Hexachlorobenzene	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Hexachlorobutadiene	AA	ug/kg-dry	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Hexachlorocyclopentadiene	AA	ug/kg-dry	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Hexachloroethane	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Indeno(1,2,3-cd)pyrene	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Isophorone	AA	ug/kg-dry	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Methyl methanesulfonate	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	N-Nitroso-di-n-butylamine	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	N-Nitrosodi-n-propylamine	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	N-Nitrosodiethylamine	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	N-Nitrosodimethylamine	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	N-Nitrosodiphenylamine	AA	ug/kg-dry	0.0857

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	N-Nitrosopiperidine	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Naphthalene	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Nitrobenzene	AA	ug/kg-dry	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	o-Toluidine	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	p-dimethylamino Azobenzene	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Pentachlorobenzene	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Pentachloronitrobenzene	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Pentachlorophenol	AA	ug/kg-dry	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Phenacetin	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Phenanthrene	AA	ug/kg-dry	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Phenol	AA	ug/kg-dry	0.0857
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Pronamide	b	ug/kg-dry	
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Pyrene	AA	ug/kg-dry	0.143
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Pyridine	AA	ug/kg-dry	0.286
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Surr: 2,4,6-Tribromophenol	29	%	10
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Surr: 2-Fluorobiphenyl	71	%	25
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Surr: 2-Fluorophenol	37	%	10
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Surr: 4-Terphenyl-d14	33	%	21
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Surr: Nitrobenzene-d5	44	%	21
AC09153	LM20	Little Miami Watershed	20	10/25/2012	13:00	\$PAH_WS	Surr: Phenol-d6	41	%	17
AC09479	LM19	Little Miami Watershed	19	11/5/2012	09:50	MF_CF	Fecal Coliform, Membrane Filter	143	CFU/100mL	
AC09479	LM19	Little Miami Watershed	19	11/5/2012	09:50	E-COLI	E.coli (Colilert)	205	MPN	
AC09479	LM19	Little Miami Watershed	19	11/5/2012	09:50	TDS	Total Dissolved Solids	510	mg/L	
AC09479	LM19	Little Miami Watershed	19	11/5/2012	09:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC09479	LM19	Little Miami Watershed	19	11/5/2012	09:50	SO4	Sulfate	61.5	mg/L	25.0
AC09479	LM19	Little Miami Watershed	19	11/5/2012	09:50	CL	Chloride	160	mg/L	4.0
AC09479	LM19	Little Miami Watershed	19	11/5/2012	09:50	TSS	Tot. Suspended Solids	22	mg/L	2
AC09479	LM19	Little Miami Watershed	19	11/5/2012	09:50	SSC	Suspended Sediment Concentration	5.4	mg/L	5.0
AC09479	LM19	Little Miami Watershed	19	11/5/2012	09:50	HARD	Hardness as CaCO3	320	mg/l	
AC09479	LM19	Little Miami Watershed	19	11/5/2012	09:50	COD	COD	51	mg/L	
AC09479	LM19	Little Miami Watershed	19	11/5/2012	09:50	TEMP_FLD	Temperature (Field) Celsius	5.12	Deg C	
AC09479	LM19	Little Miami Watershed	19	11/5/2012	09:50	PH_FLD	pH (Field)	7.58	S.U.	
AC09479	LM19	Little Miami Watershed	19	11/5/2012	09:50	DO_FLD	Dissolved Oxygen (field) mg/L	8.70	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09479	LM19	Little Miami Watershed	19	11/5/2012	09:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	520	uS/cm	
AC09479	LM19	Little Miami Watershed	19	11/5/2012	09:50	NH3	Ammonia as N	0	mg/L	0.5
AC09479	LM19	Little Miami Watershed	19	11/5/2012	09:50	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC09479	LM19	Little Miami Watershed	19	11/5/2012	09:50	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC09479	LM19	Little Miami Watershed	19	11/5/2012	09:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC09479	LM19	Little Miami Watershed	19	11/5/2012	09:50	NO2	Nitrite as N	0.0022	mg/l	0.005
AC09479	LM19	Little Miami Watershed	19	11/5/2012	09:50	NO3	Nitrate as N (calculated)	AW	mg/l	
AC09479	LM19	Little Miami Watershed	19	11/5/2012	09:50	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC09480	LM20	Little Miami Watershed	20	11/5/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	460	CFU/100mL	
AC09480	LM20	Little Miami Watershed	20	11/5/2012	10:30	E-COLI	E.coli (Colilert)	354	MPN	
AC09480	LM20	Little Miami Watershed	20	11/5/2012	10:30	TDS	Total Dissolved Solids	560	mg/L	
AC09480	LM20	Little Miami Watershed	20	11/5/2012	10:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC09480	LM20	Little Miami Watershed	20	11/5/2012	10:30	SO4	Sulfate	78.5	mg/L	12.5
AC09480	LM20	Little Miami Watershed	20	11/5/2012	10:30	CL	Chloride	141	mg/L	4.0
AC09480	LM20	Little Miami Watershed	20	11/5/2012	10:30	TSS	Tot. Suspended Solids	8	mg/L	2
AC09480	LM20	Little Miami Watershed	20	11/5/2012	10:30	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC09480	LM20	Little Miami Watershed	20	11/5/2012	10:30	HARD	Hardness as CaCO3	336	mg/l	
AC09480	LM20	Little Miami Watershed	20	11/5/2012	10:30	COD	COD	16	mg/L	
AC09480	LM20	Little Miami Watershed	20	11/5/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	5.18	Deg C	
AC09480	LM20	Little Miami Watershed	20	11/5/2012	10:30	PH_FLD	pH (Field)	7.83	S.U.	
AC09480	LM20	Little Miami Watershed	20	11/5/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	9.78	mg/l	
AC09480	LM20	Little Miami Watershed	20	11/5/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	459	uS/cm	
AC09480	LM20	Little Miami Watershed	20	11/5/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC09480	LM20	Little Miami Watershed	20	11/5/2012	10:30	NO3NO2	Nitrate + Nitrite	0.767	mg/L	0.5
AC09480	LM20	Little Miami Watershed	20	11/5/2012	10:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC09480	LM20	Little Miami Watershed	20	11/5/2012	10:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC09480	LM20	Little Miami Watershed	20	11/5/2012	10:30	NO2	Nitrite as N	0.0032	mg/l	0.005
AC09480	LM20	Little Miami Watershed	20	11/5/2012	10:30	NO3	Nitrate as N (calculated)	0.7638	mg/l	
AC09480	LM20	Little Miami Watershed	20	11/5/2012	10:30	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC09481	LM21	Little Miami Watershed	21	11/5/2012	11:00	MF_CF	Fecal Coliform, Membrane Filter	71	CFU/100mL	
AC09481	LM21	Little Miami Watershed	21	11/5/2012	11:00	E-COLI	E.coli (Colilert)	26	MPN	
AC09481	LM21	Little Miami Watershed	21	11/5/2012	11:00	TDS	Total Dissolved Solids	460	mg/L	
AC09481	LM21	Little Miami Watershed	21	11/5/2012	11:00	BOD	Biochemical Oxygen Demand	2	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09481	LM21	Little Miami Watershed	21	11/5/2012	11:00	SO4	Sulfate	61.0	mg/L	12.5
AC09481	LM21	Little Miami Watershed	21	11/5/2012	11:00	CL	Chloride	116	mg/L	2.0
AC09481	LM21	Little Miami Watershed	21	11/5/2012	11:00	TSS	Tot. Suspended Solids	10	mg/L	2
AC09481	LM21	Little Miami Watershed	21	11/5/2012	11:00	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC09481	LM21	Little Miami Watershed	21	11/5/2012	11:00	HARD	Hardness as CaCO3	292	mg/l	
AC09481	LM21	Little Miami Watershed	21	11/5/2012	11:00	COD	COD	16	mg/L	
AC09481	LM21	Little Miami Watershed	21	11/5/2012	11:00	TEMP_FLD	Temperature (Field) Celsius	6.34	Deg C	
AC09481	LM21	Little Miami Watershed	21	11/5/2012	11:00	PH_FLD	pH (Field)	7.62	S.U.	
AC09481	LM21	Little Miami Watershed	21	11/5/2012	11:00	DO_FLD	Dissolved Oxygen (field) mg/L	10.2	mg/l	
AC09481	LM21	Little Miami Watershed	21	11/5/2012	11:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	474	uS/cm	
AC09481	LM21	Little Miami Watershed	21	11/5/2012	11:00	NH3	Ammonia as N	0	mg/L	0.5
AC09481	LM21	Little Miami Watershed	21	11/5/2012	11:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC09481	LM21	Little Miami Watershed	21	11/5/2012	11:00	TKN	Total Kjeldahl Nitrogen	0.9693	mg/L	0.5
AC09481	LM21	Little Miami Watershed	21	11/5/2012	11:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC09481	LM21	Little Miami Watershed	21	11/5/2012	11:00	NO2	Nitrite as N	0.0024	mg/l	0.005
AC09481	LM21	Little Miami Watershed	21	11/5/2012	11:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC09481	LM21	Little Miami Watershed	21	11/5/2012	11:00	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC09482	LM22	Little Miami Watershed	22	11/5/2012	11:20	MF_CF	Fecal Coliform, Membrane Filter	1	CFU/100mL	
AC09482	LM22	Little Miami Watershed	22	11/5/2012	11:20	E-COLI	E.coli (Colilert)	10	MPN	
AC09482	LM22	Little Miami Watershed	22	11/5/2012	11:20	TDS	Total Dissolved Solids	390	mg/L	
AC09482	LM22	Little Miami Watershed	22	11/5/2012	11:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC09482	LM22	Little Miami Watershed	22	11/5/2012	11:20	SO4	Sulfate	51.0	mg/L	12.5
AC09482	LM22	Little Miami Watershed	22	11/5/2012	11:20	CL	Chloride	59.6	mg/L	1.00
AC09482	LM22	Little Miami Watershed	22	11/5/2012	11:20	TSS	Tot. Suspended Solids	10	mg/L	2
AC09482	LM22	Little Miami Watershed	22	11/5/2012	11:20	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC09482	LM22	Little Miami Watershed	22	11/5/2012	11:20	HARD	Hardness as CaCO3	288	mg/l	
AC09482	LM22	Little Miami Watershed	22	11/5/2012	11:20	COD	COD	23	mg/L	
AC09482	LM22	Little Miami Watershed	22	11/5/2012	11:20	TEMP_FLD	Temperature (Field) Celsius	6.22	Deg C	
AC09482	LM22	Little Miami Watershed	22	11/5/2012	11:20	PH_FLD	pH (Field)	6.79	S.U.	
AC09482	LM22	Little Miami Watershed	22	11/5/2012	11:20	DO_FLD	Dissolved Oxygen (field) mg/L	22.7	mg/l	
AC09482	LM22	Little Miami Watershed	22	11/5/2012	11:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	376	uS/cm	
AC09482	LM22	Little Miami Watershed	22	11/5/2012	11:20	NH3	Ammonia as N	0	mg/L	0.5
AC09482	LM22	Little Miami Watershed	22	11/5/2012	11:20	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09482	LM22	Little Miami Watershed	22	11/5/2012	11:20	TKN	Total Kjeldahl Nitrogen	1.106	mg/L	0.5
AC09482	LM22	Little Miami Watershed	22	11/5/2012	11:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC09482	LM22	Little Miami Watershed	22	11/5/2012	11:20	NO2	Nitrite as N	0.0021	mg/l	0.005
AC09482	LM22	Little Miami Watershed	22	11/5/2012	11:20	NO3	Nitrate as N (calculated)	AW	mg/l	
AC09482	LM22	Little Miami Watershed	22	11/5/2012	11:20	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC09483	LM23	Little Miami Watershed	23	11/5/2012	12:00	MF_CF	Fecal Coliform, Membrane Filter	129	CFU/100mL	
AC09483	LM23	Little Miami Watershed	23	11/5/2012	12:00	E-COLI	E.coli (Colilert)	129	MPN	
AC09483	LM23	Little Miami Watershed	23	11/5/2012	12:00	TDS	Total Dissolved Solids	330	mg/L	
AC09483	LM23	Little Miami Watershed	23	11/5/2012	12:00	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC09483	LM23	Little Miami Watershed	23	11/5/2012	12:00	SO4	Sulfate	62.5	mg/L	12.5
AC09483	LM23	Little Miami Watershed	23	11/5/2012	12:00	CL	Chloride	58.8	mg/L	1.00
AC09483	LM23	Little Miami Watershed	23	11/5/2012	12:00	TSS	Tot. Suspended Solids	14	mg/L	2
AC09483	LM23	Little Miami Watershed	23	11/5/2012	12:00	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC09483	LM23	Little Miami Watershed	23	11/5/2012	12:00	HARD	Hardness as CaCO3	266	mg/l	
AC09483	LM23	Little Miami Watershed	23	11/5/2012	12:00	COD	COD	27	mg/L	
AC09483	LM23	Little Miami Watershed	23	11/5/2012	12:00	TEMP_FLD	Temperature (Field) Celsius	4.85	Deg C	
AC09483	LM23	Little Miami Watershed	23	11/5/2012	12:00	PH_FLD	pH (Field)	7.52	S.U.	
AC09483	LM23	Little Miami Watershed	23	11/5/2012	12:00	DO_FLD	Dissolved Oxygen (field) mg/L	8.94	mg/l	
AC09483	LM23	Little Miami Watershed	23	11/5/2012	12:00	CONDUCTIVITY	Specific Conductivity (uS/cm)	340	uS/cm	
AC09483	LM23	Little Miami Watershed	23	11/5/2012	12:00	NH3	Ammonia as N	0	mg/L	0.5
AC09483	LM23	Little Miami Watershed	23	11/5/2012	12:00	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC09483	LM23	Little Miami Watershed	23	11/5/2012	12:00	TKN	Total Kjeldahl Nitrogen	1.657	mg/L	0.5
AC09483	LM23	Little Miami Watershed	23	11/5/2012	12:00	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC09483	LM23	Little Miami Watershed	23	11/5/2012	12:00	NO2	Nitrite as N	0.0021	mg/l	0.005
AC09483	LM23	Little Miami Watershed	23	11/5/2012	12:00	NO3	Nitrate as N (calculated)	AW	mg/l	
AC09483	LM23	Little Miami Watershed	23	11/5/2012	12:00	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC09485	LM106	Little Miami Watershed	106	11/5/2012	12:55	MF_CF	Fecal Coliform, Membrane Filter	21	CFU/100mL	
AC09485	LM106	Little Miami Watershed	106	11/5/2012	12:55	E-COLI	E.coli (Colilert)	12	MPN	
AC09485	LM106	Little Miami Watershed	106	11/5/2012	12:55	TDS	Total Dissolved Solids	390	mg/L	
AC09485	LM106	Little Miami Watershed	106	11/5/2012	12:55	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC09485	LM106	Little Miami Watershed	106	11/5/2012	12:55	SO4	Sulfate	73.2	mg/L	12.5
AC09485	LM106	Little Miami Watershed	106	11/5/2012	12:55	CL	Chloride	66.1	mg/L	1.00
AC09485	LM106	Little Miami Watershed	106	11/5/2012	12:55	TSS	Tot. Suspended Solids	6	mg/L	2

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09485	LM106	Little Miami Watershed	106	11/5/2012	12:55	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC09485	LM106	Little Miami Watershed	106	11/5/2012	12:55	HARD	Hardness as CaCO3	262	mg/l	
AC09485	LM106	Little Miami Watershed	106	11/5/2012	12:55	COD	COD	28	mg/L	
AC09485	LM106	Little Miami Watershed	106	11/5/2012	12:55	TEMP_FLD	Temperature (Field) Celsius	6.89	Deg C	
AC09485	LM106	Little Miami Watershed	106	11/5/2012	12:55	PH_FLD	pH (Field)	7.54	S.U.	
AC09485	LM106	Little Miami Watershed	106	11/5/2012	12:55	DO_FLD	Dissolved Oxygen (field) mg/L	10.1	mg/l	
AC09485	LM106	Little Miami Watershed	106	11/5/2012	12:55	CONDUCTIVITY	Specific Conductivity (uS/cm)	347	uS/cm	
AC09485	LM106	Little Miami Watershed	106	11/5/2012	12:55	NH3	Ammonia as N	0	mg/L	0.5
AC09485	LM106	Little Miami Watershed	106	11/5/2012	12:55	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC09485	LM106	Little Miami Watershed	106	11/5/2012	12:55	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC09485	LM106	Little Miami Watershed	106	11/5/2012	12:55	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC09485	LM106	Little Miami Watershed	106	11/5/2012	12:55	NO2	Nitrite as N	0.0020	mg/l	0.005
AC09485	LM106	Little Miami Watershed	106	11/5/2012	12:55	NO3	Nitrate as N (calculated)	AW	mg/l	
AC09485	LM106	Little Miami Watershed	106	11/5/2012	12:55	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC09486	LM41	Little Miami Watershed	41	11/5/2012	09:35	MF_CF	Fecal Coliform, Membrane Filter	425	CFU/100mL	
AC09486	LM41	Little Miami Watershed	41	11/5/2012	09:35	E-COLI	E.coli (Colilert)	921	MPN	
AC09486	LM41	Little Miami Watershed	41	11/5/2012	09:35	TDS	Total Dissolved Solids	420	mg/L	
AC09486	LM41	Little Miami Watershed	41	11/5/2012	09:35	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC09486	LM41	Little Miami Watershed	41	11/5/2012	09:35	SO4	Sulfate	64.0	mg/L	12.5
AC09486	LM41	Little Miami Watershed	41	11/5/2012	09:35	CL	Chloride	71.6	mg/L	1.00
AC09486	LM41	Little Miami Watershed	41	11/5/2012	09:35	TSS	Tot. Suspended Solids	8	mg/L	2
AC09486	LM41	Little Miami Watershed	41	11/5/2012	09:35	SSC	Suspended Sediment Concentration	29.3	mg/L	5.0
AC09486	LM41	Little Miami Watershed	41	11/5/2012	09:35	HARD	Hardness as CaCO3	330	mg/l	
AC09486	LM41	Little Miami Watershed	41	11/5/2012	09:35	COD	COD	29	mg/L	
AC09486	LM41	Little Miami Watershed	41	11/5/2012	09:35	TEMP_FLD	Temperature (Field) Celsius	6.88	Deg C	
AC09486	LM41	Little Miami Watershed	41	11/5/2012	09:35	PH_FLD	pH (Field)	6.44	S.U.	
AC09486	LM41	Little Miami Watershed	41	11/5/2012	09:35	DO_FLD	Dissolved Oxygen (field) mg/L	6.61	mg/l	
AC09486	LM41	Little Miami Watershed	41	11/5/2012	09:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	644	uS/cm	
AC09486	LM41	Little Miami Watershed	41	11/5/2012	09:35	NH3	Ammonia as N	0	mg/L	0.5
AC09486	LM41	Little Miami Watershed	41	11/5/2012	09:35	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC09486	LM41	Little Miami Watershed	41	11/5/2012	09:35	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC09486	LM41	Little Miami Watershed	41	11/5/2012	09:35	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC09486	LM41	Little Miami Watershed	41	11/5/2012	09:35	NO2	Nitrite as N	0.0031	mg/l	0.005



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09486	LM41	Little Miami Watershed	41	11/5/2012	09:35	NO3	Nitrate as N (calculated)	AW	mg/l	
AC09486	LM41	Little Miami Watershed	41	11/5/2012	09:35	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC09487	LM42	Little Miami Watershed	42	11/5/2012	10:30	MF_CF	Fecal Coliform, Membrane Filter	240	CFU/100mL	
AC09487	LM42	Little Miami Watershed	42	11/5/2012	10:30	E-COLI	E.coli (Colilert)	225	MPN	
AC09487	LM42	Little Miami Watershed	42	11/5/2012	10:30	TDS	Total Dissolved Solids	530	mg/L	
AC09487	LM42	Little Miami Watershed	42	11/5/2012	10:30	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC09487	LM42	Little Miami Watershed	42	11/5/2012	10:30	SO4	Sulfate	78.5	mg/L	12.5
AC09487	LM42	Little Miami Watershed	42	11/5/2012	10:30	CL	Chloride	129	mg/L	4.0
AC09487	LM42	Little Miami Watershed	42	11/5/2012	10:30	TSS	Tot. Suspended Solids	42	mg/L	2
AC09487	LM42	Little Miami Watershed	42	11/5/2012	10:30	SSC	Suspended Sediment Concentration	80.6	mg/L	5.0
AC09487	LM42	Little Miami Watershed	42	11/5/2012	10:30	HARD	Hardness as CaCO3	354	mg/l	
AC09487	LM42	Little Miami Watershed	42	11/5/2012	10:30	COD	COD	24	mg/L	
AC09487	LM42	Little Miami Watershed	42	11/5/2012	10:30	TEMP_FLD	Temperature (Field) Celsius	10.01	Deg C	
AC09487	LM42	Little Miami Watershed	42	11/5/2012	10:30	PH_FLD	pH (Field)	6.50	S.U.	
AC09487	LM42	Little Miami Watershed	42	11/5/2012	10:30	DO_FLD	Dissolved Oxygen (field) mg/L	12.50	mg/l	
AC09487	LM42	Little Miami Watershed	42	11/5/2012	10:30	CONDUCTIVITY	Specific Conductivity (uS/cm)	818	uS/cm	
AC09487	LM42	Little Miami Watershed	42	11/5/2012	10:30	NH3	Ammonia as N	0	mg/L	0.5
AC09487	LM42	Little Miami Watershed	42	11/5/2012	10:30	NO3NO2	Nitrate + Nitrite	0.5998	mg/L	0.5
AC09487	LM42	Little Miami Watershed	42	11/5/2012	10:30	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC09487	LM42	Little Miami Watershed	42	11/5/2012	10:30	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC09487	LM42	Little Miami Watershed	42	11/5/2012	10:30	NO2	Nitrite as N	0.0028	mg/l	0.005
AC09487	LM42	Little Miami Watershed	42	11/5/2012	10:30	NO3	Nitrate as N (calculated)	0.5970	mg/l	
AC09487	LM42	Little Miami Watershed	42	11/5/2012	10:30	CHLOROPHYLL	Chlorophyll	1.07	mg/m3	1.00
AC09488	LM45	Little Miami Watershed	45	11/5/2012	10:50	MF_CF	Fecal Coliform, Membrane Filter	121	CFU/100mL	
AC09488	LM45	Little Miami Watershed	45	11/5/2012	10:50	E-COLI	E.coli (Colilert)	172	MPN	
AC09488	LM45	Little Miami Watershed	45	11/5/2012	10:50	TDS	Total Dissolved Solids	310	mg/L	
AC09488	LM45	Little Miami Watershed	45	11/5/2012	10:50	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC09488	LM45	Little Miami Watershed	45	11/5/2012	10:50	SO4	Sulfate	55.0	mg/L	12.5
AC09488	LM45	Little Miami Watershed	45	11/5/2012	10:50	CL	Chloride	89.7	mg/L	1.00
AC09488	LM45	Little Miami Watershed	45	11/5/2012	10:50	TSS	Tot. Suspended Solids	14	mg/L	2
AC09488	LM45	Little Miami Watershed	45	11/5/2012	10:50	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC09488	LM45	Little Miami Watershed	45	11/5/2012	10:50	HARD	Hardness as CaCO3	204	mg/l	
AC09488	LM45	Little Miami Watershed	45	11/5/2012	10:50	COD	COD	30	mg/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09488	LM45	Little Miami Watershed	45	11/5/2012	10:50	TEMP_FLD	Temperature (Field) Celsius	4.74	Deg C	
AC09488	LM45	Little Miami Watershed	45	11/5/2012	10:50	PH_FLD	pH (Field)	6.39	S.U.	
AC09488	LM45	Little Miami Watershed	45	11/5/2012	10:50	DO_FLD	Dissolved Oxygen (field) mg/L	19.6	mg/l	
AC09488	LM45	Little Miami Watershed	45	11/5/2012	10:50	CONDUCTIVITY	Specific Conductivity (uS/cm)	531	uS/cm	
AC09488	LM45	Little Miami Watershed	45	11/5/2012	10:50	NH3	Ammonia as N	0	mg/L	0.5
AC09488	LM45	Little Miami Watershed	45	11/5/2012	10:50	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC09488	LM45	Little Miami Watershed	45	11/5/2012	10:50	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC09488	LM45	Little Miami Watershed	45	11/5/2012	10:50	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC09488	LM45	Little Miami Watershed	45	11/5/2012	10:50	NO2	Nitrite as N	0.0019	mg/l	0.005
AC09488	LM45	Little Miami Watershed	45	11/5/2012	10:50	NO3	Nitrate as N (calculated)	AW	mg/l	
AC09488	LM45	Little Miami Watershed	45	11/5/2012	10:50	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC09489	LM44	Little Miami Watershed	44	11/5/2012	11:20	MF_CF	Fecal Coliform, Membrane Filter	57	CFU/100mL	
AC09489	LM44	Little Miami Watershed	44	11/5/2012	11:20	E-COLI	E.coli (Colilert)	112	MPN	
AC09489	LM44	Little Miami Watershed	44	11/5/2012	11:20	TDS	Total Dissolved Solids	350	mg/L	
AC09489	LM44	Little Miami Watershed	44	11/5/2012	11:20	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC09489	LM44	Little Miami Watershed	44	11/5/2012	11:20	SO4	Sulfate	76.0	mg/L	12.5
AC09489	LM44	Little Miami Watershed	44	11/5/2012	11:20	CL	Chloride	74.2	mg/L	1.00
AC09489	LM44	Little Miami Watershed	44	11/5/2012	11:20	TSS	Tot. Suspended Solids	6	mg/L	2
AC09489	LM44	Little Miami Watershed	44	11/5/2012	11:20	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC09489	LM44	Little Miami Watershed	44	11/5/2012	11:20	HARD	Hardness as CaCO3	268	mg/l	
AC09489	LM44	Little Miami Watershed	44	11/5/2012	11:20	COD	COD	11	mg/L	
AC09489	LM44	Little Miami Watershed	44	11/5/2012	11:20	TEMP_FLD	Temperature (Field) Celsius	5.7	Deg C	
AC09489	LM44	Little Miami Watershed	44	11/5/2012	11:20	PH_FLD	pH (Field)	6.61	S.U.	
AC09489	LM44	Little Miami Watershed	44	11/5/2012	11:20	DO_FLD	Dissolved Oxygen (field) mg/L	17.48	mg/l	
AC09489	LM44	Little Miami Watershed	44	11/5/2012	11:20	CONDUCTIVITY	Specific Conductivity (uS/cm)	587	uS/cm	
AC09489	LM44	Little Miami Watershed	44	11/5/2012	11:20	NH3	Ammonia as N	0	mg/L	0.5
AC09489	LM44	Little Miami Watershed	44	11/5/2012	11:20	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC09489	LM44	Little Miami Watershed	44	11/5/2012	11:20	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC09489	LM44	Little Miami Watershed	44	11/5/2012	11:20	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC09489	LM44	Little Miami Watershed	44	11/5/2012	11:20	NO2	Nitrite as N	0.0023	mg/l	0.005
AC09489	LM44	Little Miami Watershed	44	11/5/2012	11:20	NO3	Nitrate as N (calculated)	AW	mg/l	
AC09489	LM44	Little Miami Watershed	44	11/5/2012	11:20	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC09490	LM43	Little Miami Watershed	43	11/5/2012	11:35	MF_CF	Fecal Coliform, Membrane Filter	29	CFU/100mL	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09490	LM43	Little Miami Watershed	43	11/5/2012	11:35	E-COLI	E.coli (Colilert)	48	MPN	
AC09490	LM43	Little Miami Watershed	43	11/5/2012	11:35	TDS	Total Dissolved Solids	290	mg/L	
AC09490	LM43	Little Miami Watershed	43	11/5/2012	11:35	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC09490	LM43	Little Miami Watershed	43	11/5/2012	11:35	SO4	Sulfate	46.8	mg/L	12.5
AC09490	LM43	Little Miami Watershed	43	11/5/2012	11:35	CL	Chloride	67.3	mg/L	1.00
AC09490	LM43	Little Miami Watershed	43	11/5/2012	11:35	TSS	Tot. Suspended Solids	4	mg/L	2
AC09490	LM43	Little Miami Watershed	43	11/5/2012	11:35	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC09490	LM43	Little Miami Watershed	43	11/5/2012	11:35	HARD	Hardness as CaCO3	238	mg/l	
AC09490	LM43	Little Miami Watershed	43	11/5/2012	11:35	COD	COD	16	mg/L	
AC09490	LM43	Little Miami Watershed	43	11/5/2012	11:35	TEMP_FLD	Temperature (Field) Celsius	5.29	Deg C	
AC09490	LM43	Little Miami Watershed	43	11/5/2012	11:35	PH_FLD	pH (Field)	6.76	S.U.	
AC09490	LM43	Little Miami Watershed	43	11/5/2012	11:35	DO_FLD	Dissolved Oxygen (field) mg/L	16.44	mg/l	
AC09490	LM43	Little Miami Watershed	43	11/5/2012	11:35	CONDUCTIVITY	Specific Conductivity (uS/cm)	457	uS/cm	
AC09490	LM43	Little Miami Watershed	43	11/5/2012	11:35	NH3	Ammonia as N	0	mg/L	0.5
AC09490	LM43	Little Miami Watershed	43	11/5/2012	11:35	NO3NO2	Nitrate + Nitrite	0	mg/L	0.5
AC09490	LM43	Little Miami Watershed	43	11/5/2012	11:35	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC09490	LM43	Little Miami Watershed	43	11/5/2012	11:35	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC09490	LM43	Little Miami Watershed	43	11/5/2012	11:35	NO2	Nitrite as N	0.0015	mg/l	0.005
AC09490	LM43	Little Miami Watershed	43	11/5/2012	11:35	NO3	Nitrate as N (calculated)	AW	mg/l	
AC09490	LM43	Little Miami Watershed	43	11/5/2012	11:35	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	MF_CF	Fecal Coliform, Membrane Filter	29	CFU/100mL	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	E-COLI	E.coli (Colilert)	32	MPN	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	TDS	Total Dissolved Solids	390	mg/L	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	BOD	Biochemical Oxygen Demand	2	mg/L	2
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	SO4	Sulfate	62.8	mg/L	12.5
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	CL	Chloride	86.3	mg/L	1.00
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	TSS	Tot. Suspended Solids	6	mg/L	2
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	SSC	Suspended Sediment Concentration	AA	mg/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	HARD	Hardness as CaCO3	280	mg/l	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	COD	COD	7	mg/L	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	TEMP_FLD	Temperature (Field) Celsius	8.17	Deg C	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	PH_FLD	pH (Field)	7.28	S.U.	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	DO_FLD	Dissolved Oxygen (field) mg/L	15.48	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	CONDUCTIVITY	Specific Conductivity (uS/cm)	695	uS/cm	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$ICP	Aluminum	0.000	mg/L	0.348
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$ICP	Antimony	0.000	mg/L	0.006
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$ICP	Arsenic	0.000	mg/L	0.012
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$ICP	Barium	0.036	mg/L	0.003
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$ICP	Beryllium	0.000	mg/L	0.009
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$ICP	Cadmium	0.000	mg/L	0.012
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$ICP	Calcium	89.254	mg/L	0.066
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$ICP	Chromium	0.000	mg/L	0.006
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$ICP	Cobalt	0.000	mg/L	0.006
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$ICP	Copper	0.000	mg/L	0.006
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$ICP	Iron	0.037	mg/L	0.018
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$ICP	Lead	0.000	mg/L	0.006
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$ICP	Magnesium	18.037	mg/L	0.021
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$ICP	Manganese	0.000	mg/L	0.009
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$ICP	Nickel	0.000	mg/L	0.003
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$ICP	Selenium	0.017	mg/L	0.009
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$ICP	Silver	0.000	mg/L	0.003
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$ICP	Strontium	0.288	mg/L	0.009
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$ICP	Thallium	0.000	mg/L	0.012
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$ICP	Tin	0.000	mg/L	0.006
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$ICP	Vanadium	0.000	mg/L	0.018
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$ICP	Zinc	0.000	mg/L	0.006
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	PB_FU	Lead by Furnace	0	ug/L	0.5
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	AS_FU	Arsenic by Furnace	1.529	ug/L	1.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	CD_FU	Cadmium by Furnace	AA	ug/L	1
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	CU_FU	Copper by Furnace	4.5	ug/L	1
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	NH3	Ammonia as N	0	mg/L	0.5
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	NO3NO2	Nitrate + Nitrite	5.59	mg/L	0.5
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	TKN	Total Kjeldahl Nitrogen	0	mg/L	0.5
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	TKP	Total Kjeldahl Phosphorus	0	mg/L	0.5
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	NO2	Nitrite as N	0.0017	mg/l	0.005
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	NO3	Nitrate as N (calculated)	5.5883	mg/l	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	CHLOROPHYLL	Chlorophyll	1.00	mg/m3	1.00
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	Aldrin	AA	ug/L	0.020
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	Alpha-BHC	AA	ug/L	0.020
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	Beta-BHC	AA	ug/L	0.020
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	Delta-BHC	AA	ug/L	0.020
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	Gamma-BHC	AA	ug/L	0.020
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	Chlordane	AA	ug/L	0.10
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	4,4-DDD	AA	ug/L	0.020
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	4,4-DDT	AA	ug/L	0.030
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	4,4-DDE	AA	ug/L	0.020
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	Dieldrin	AA	ug/L	0.020
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	Endosulfan I	AA	ug/L	0.050
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	Endosulfan II	AA	ug/L	0.020
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	Endosulfan sulfate	AA	ug/L	0.050
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	Endrin	AA	ug/L	0.020
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	Endrin aldehyde	AA	ug/L	0.020
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	Heptachlor	AA	ug/L	0.020
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	Heptachlor epoxide	AA	ug/L	0.050
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	Toxaphene	AA	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	PCB 1016	AA	ug/L	0.5
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	PCB 1221	AA	ug/L	0.5
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	PCB 1232	AA	ug/L	0.5
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	PCB 1242	AA	ug/L	0.5
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	PCB 1248	AA	ug/L	0.5
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	PCB 1254	AA	ug/L	0.5
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	PCB 1260	AA	ug/L	0.5
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	Surr: Decachlorobiphenyl	111	%	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$PEST	Surr: Tetrachloro-m-xylene	95	%	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624	Bromochloromethane	50.0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624	Chloromethane	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624	Vinyl Chloride	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624	Bromomethane	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624	Chloroethane	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		Trichlorofluoromethane	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		Acrolein	0	ug/L	100.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		1,1-Dichloroethene	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		Acrylonitrile	0	ug/L	100.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		Methylene Chloride	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		Trans-1,2-Dichloroethene	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		1,1-Dichloroethane	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		Chloroform	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		2-Bromo,1-Chloropropane	50.0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		1,2-Dichloroethane	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		1,2-Dichloroethane-d4	71.4	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		1,1,1-Trichloroethane	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		Carbon Tetrachloride	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		Benzene	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		Trichloroethene	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		2-Chloroethylvinylether	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		1,2-Dichloropropane	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		Bromodichloromethane	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		cis-1,3-Dichloropropene	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		trans-1,3-Dichloropropene	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		1,1,2-Trichloroethane	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		Dibromochloromethane	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		Bromoform	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		1,4-Dichlorobutane	50.0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		Tetrachloroethene	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		1,1,2,2-Tetrachloroethane	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		Toluene	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		Toluene-d8	59.7	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		Chlorobenzene	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		Ethylbenzene	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		Bromofluorobenzene	56.7	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		1,3-Dichlorobenzene	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624		1,4-Dichlorobenzene	0	ug/L	5.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Analysis Code	Analysis Description	Results	Units	MDL
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624	1,2-Dichlorobenzene	0	ug/L	5.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624	2-Propanone	0	ug/L	60
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624	2-Butanone	0	ug/L	60
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624	Tetrahydrofuran	0	ug/L	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624	2-chloroethoxy ethene	0	ug/L	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$624	TOTAL AMOUNT	365	ug/L	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	1,4-Dichlorobenzene-D4	50.0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	pyridine	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	n-nitrosodimethylamine	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	2-Fluorophenol	15.0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	aniline	0	ug/L	6.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	Phenol-d6	17.2	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	Phenol	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	Bis(2-Chloroethyl)ether	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	2-Chlorophenol	0	ug/L	6.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	n-decane	0	ug/L	6.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	Bis(2-chloroisopropyl)ether	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	o-cresol	0	ug/L	6.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	acetophenone	0	ug/L	6.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	n-nitrosodi-n-propylamine	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	Hexachloroethane	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	Naphthalene-D8	50.0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	Nitrobenzene-d5	80.9	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	p-cresol	0	ug/L	6.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	Nitrobenzene	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	Isophorone	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	Decafluorobiphenyl	74.0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	2-Nitrophenol	0	ug/L	6.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	2,4-Dimethylphenol	0	ug/L	6.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	bis(2-Chloroethoxy)methane	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	2,4-Dichlorophenol	0	ug/L	6.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	1,2,4-Trichlorobenzene	0	ug/L	6.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	Naphthalene	0	ug/L	3.0

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect Cost	Analysis Code	Analysis Description	Results	Units	MDL
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		1-Fluoronaphthalene	72.6	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		alpha terpineol	0	ug/L	6.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Hexachlorobutadiene	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		4-Chloro-3-methylphenol	0	ug/L	6.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Acenaphthene-d10	50.0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Hexachlorocyclopentadiene	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		2,3 dichloroaniline	0	ug/L	6.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		2,4,6-Trichlorophenol	0	ug/L	6.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		2-Chloronaphthalene	0	ug/L	6.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Dimethyl phthalate	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Acenaphthylene	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		2,6-Dinitrotoluene	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Acenaphthene	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		2,4-Dinitrophenol	0	ug/L	6.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		4-Nitrophenol	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		2,4-Dinitrotoluene	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Diethyl phthalate	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		4-Chlorophenyl phenyl ether	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Fluorene	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Phenanthrene-D10	50.0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		4,6-Dinitro-o-cresol	0	ug/L	7.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		n-nitrosodiphenylamine	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		1,2-Diphenylhydrazine	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		2,4,6-Tribromophenol	27.0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		4-Bromophenyl phenyl ether	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Hexachlorobenzene	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Pentachlorophenol	0	ug/L	6.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		n-octadecane	0	ug/L	6.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Phenanthrene	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Anthracene	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		carbazole	0	ug/L	6.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Di-n-butyl phthalate	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Fluoranthene	0	ug/L	3.0



**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Time	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Chrysene-d12	50.0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Benzidine	0	ug/L	6.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Pyrene	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Butyl benzyl phthalate	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		3,3-Dichlorobenzidine	0	ug/L	6.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Benzo(a)anthracene	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Chrysene	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		bis(2-ethylhexyl)phthalate	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Di-n-octyl phthalate	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Perylene-D12	50.0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Benzo(b)fluoranthene	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Benzo(k)fluoranthene	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Benzo(a)pyrene	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Indeno(1,2,3-cd)pyrene	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Dibenzo(a,h)anthracene	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Benzo(ghi)perylene	0	ug/L	3.0
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Hexachloroethane	0	ug/L	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		2,3-Dichloroaniline	0	ug/L	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Diethylphthalate	0	ug/L	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Bis(2-ethylhexyl) phthalate	0	ug/L	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Benzo[b]fluoranthene	0	ug/L	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Benzo[k]fluoranthene	0	ug/L	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Indeno[1,2,3-cd]pyrene	0	ug/L	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Dibenz[a,h]anthracene	0	ug/L	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Benzo[ghi]perylene	0	ug/L	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		6,6-Dimethyl-cyclohex-2-en-1-ol T	5	ug/L	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		2-Hexene, 2,5,5-trimethyl- T	23	ug/L	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		2-Hexene, 3,5,5-trimethyl- T	6	ug/L	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		1-Silacyclo-3-pentene T	4	ug/L	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		2-Butenal, 3-methyl- T	9	ug/L	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		trans-2-Oxabicyclo[4.4.0]decane T	4	ug/L	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Pentane, 2,3,4-trimethyl- T	4	ug/L	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625		Pentane, 2,3,4-trimethyl- T2	31	ug/L	

**Appendix E.** Raw chemical data collected in the Little Miami R. and tributaries in 2012.

SampleID	Location	Location Description	Station	Collection Date	Collect	Analysis Code	Analysis Description	Results	Units	MDL
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	1,3-Cyclobutanedione, 2,2,4,4-tetramet T	4	ug/L	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	Pentane, 2,3,4-trimethyl- T3	6	ug/L	
AC09491	LM96	Little Miami Watershed	96	11/5/2012	12:28	\$625	TOTAL AMOUNT	682	ug/L	